

The
ROLLAMO



1930

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THE IROLLAMO



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THE ROLLAMMO



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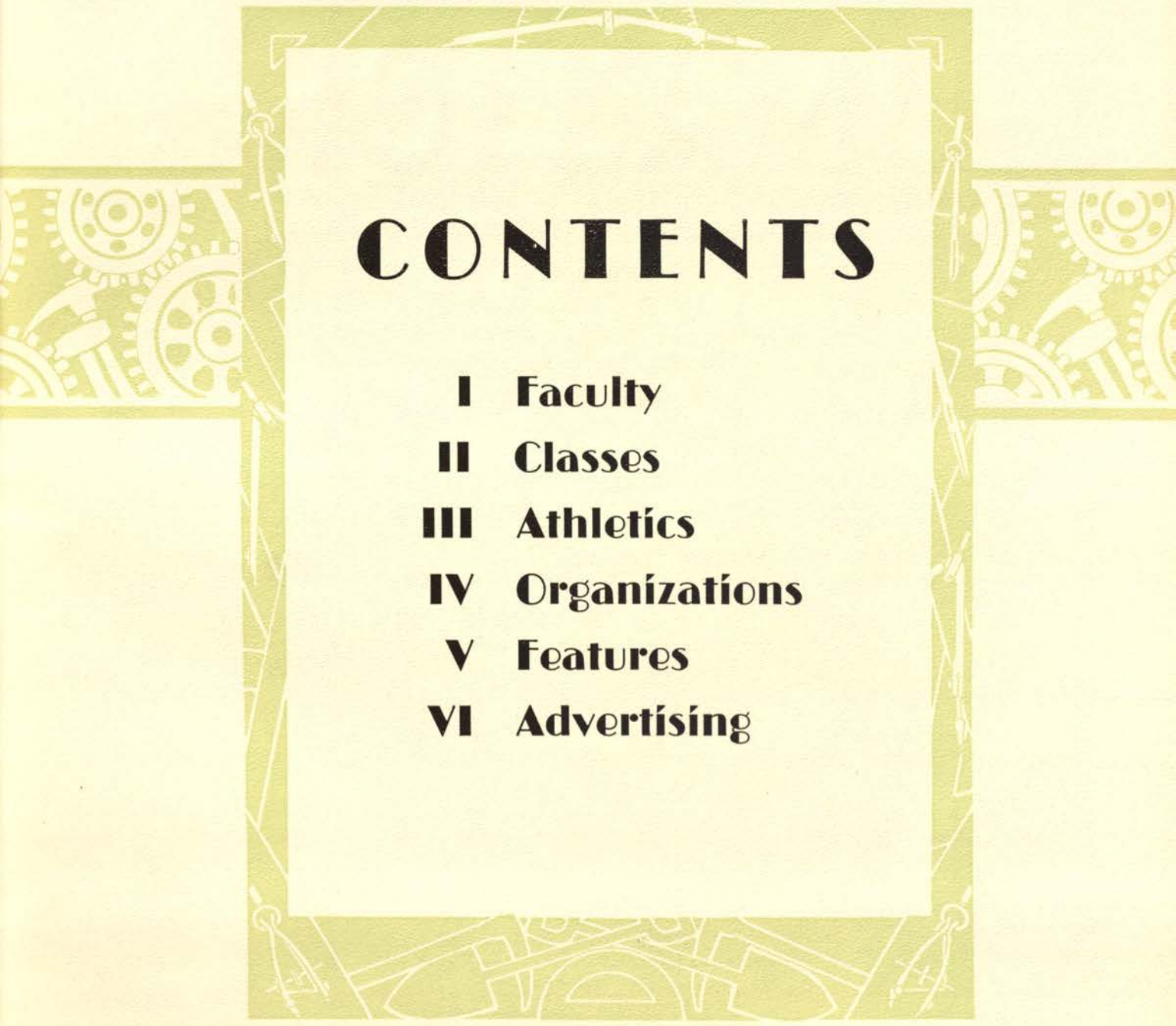
The Record of the Year
of the
Missouri School of Mines and Metallurgy
Rolla Missouri

A decorative border in a light olive-green color frames the central text. It features stylized mechanical motifs such as gears, pulleys, and belts, particularly visible on the left and right sides. The border is composed of several segments that meet at the corners.

FOREWORD

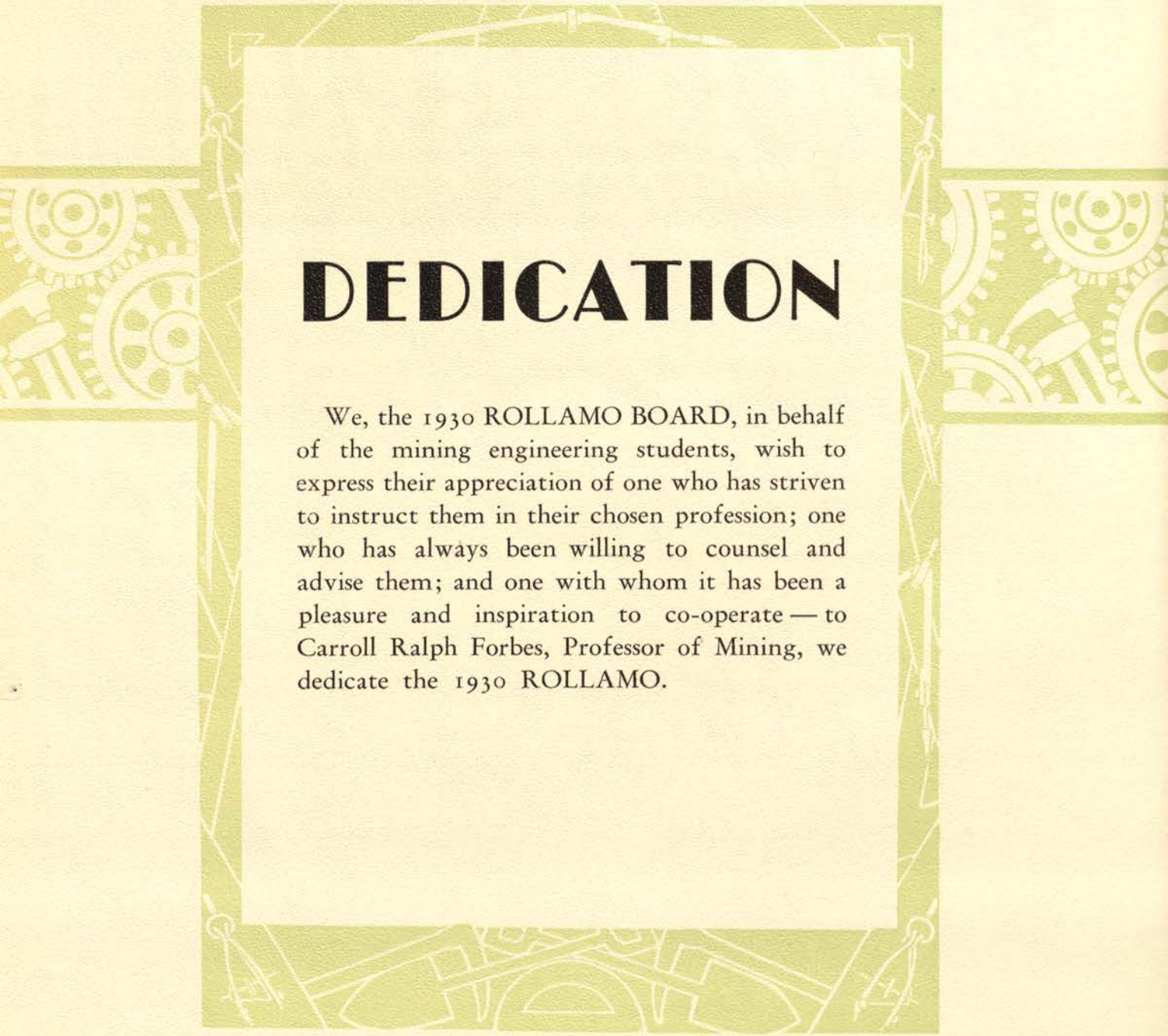
Upon the mining engineer falls the mighty task of developing the earth's natural resources. A difficult task, to be sure, and yet one that is not without its romance and glamour. In trackless forests, deserts, and barren mountains he will be found directing vast mining operations; oftentimes working under enormous handicaps; sometimes braving the dangers that confront the explorer and pioneer. Nothing daunts him; with resourcefulness and daring he faces and overcomes the obstacles placed in his way, never failing to supply civilization with the metals that it needs.

So throughout this book we have endeavored to give to the mining engineer the recognition that is only his just due for the services that he performs for mankind.

A decorative border in a light olive-green color frames the central text. The border features a repeating pattern of mechanical elements, including gears, cogs, and interlocking parts, reminiscent of a steampunk or industrial theme. The pattern is most prominent on the left and right sides, where it forms a cross-like shape around the central white area.

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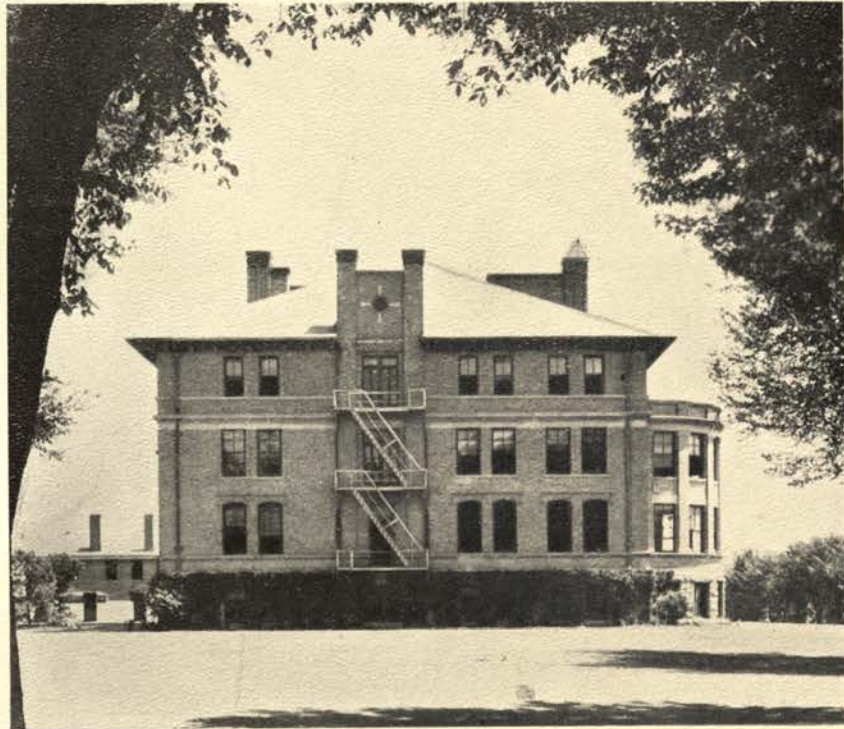


DEDICATION

We, the 1930 ROLLAMO BOARD, in behalf of the mining engineering students, wish to express their appreciation of one who has striven to instruct them in their chosen profession; one who has always been willing to counsel and advise them; and one with whom it has been a pleasure and inspiration to co-operate — to Carroll Ralph Forbes, Professor of Mining, we dedicate the 1930 ROLLAMO.



CARROLL RALPH FORBES



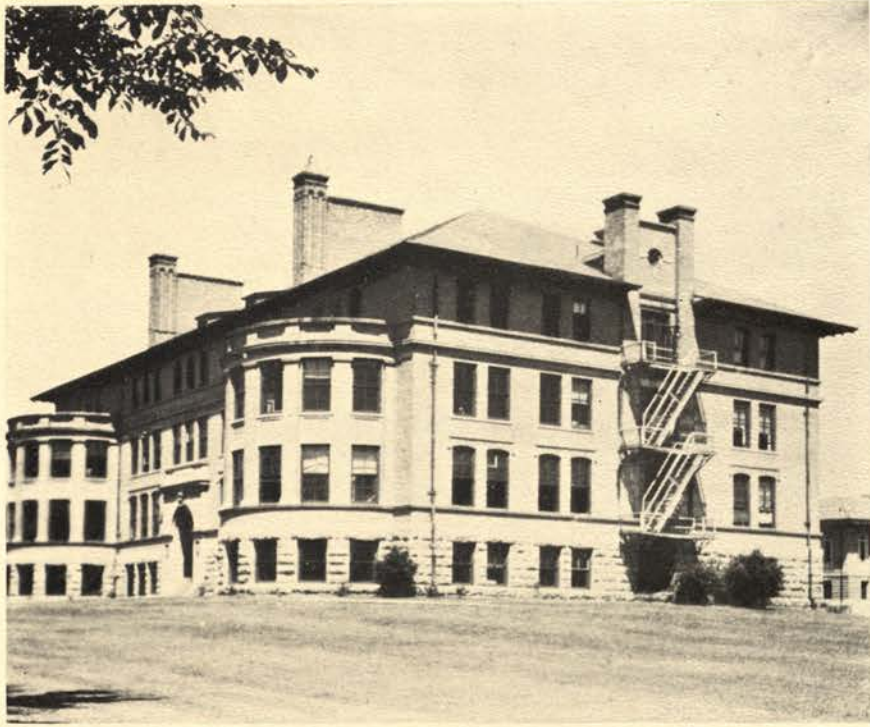
Norwood Hall



Parker Hall



The Campus after a Snow



Norwood Hall



Parker Hall and Jackling Gymnasium



Iron

As a metal Iron has played a vital part in the history of civilization. In mining the vast quantity of it needed the mining engineer performs a great service to mankind.

Faculty



CHARLES HERMAN FULTON, *Director*

E.M., School of Mines, Columbia U., 1897
C.Sc. (honorary), South Dakota, 1911

Theta Delta Chi, Sigma Xi, Tau Beta Pi, Phi Kappa Phi, Theta Tau



HENRY HORTON ARMSBY, *Registrar*

E.S., Pennsylvania State, 1911

C.E., Pennsylvania State, 1916

Sigma Nu, Phi Kappa Phi

ELMO GOLIGHTLY HARRIS, C.E.,
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Professor of Military Science and Tactics*



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PH.D.,
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PH.D.,
Associate Professor of Geology and Mineralogy



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Associate Professor of Metallurgical Research



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Associate Professor of Modern Languages

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Secretary to the Faculty*

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*Librarian and Associate Professor of Library
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Assistant Professor of Civil Engineering



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Assistant Professor of Physics



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Assistant Professor of Mechanical Drawing



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*Assistant Professor of Mechanical Drawing
and Descriptive Geometry*



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Assistant Professor of Biology



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Assistant Professor of Ceramic Engineering



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Assistant Professor of Physics



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Assistant Professor of Mechanical Engineering

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*First Lieutenant, Corps of Engineers, U. S. A.,
Assistant Professor of Military Science
and Tactics*

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Director of Athletics and Head Coach

WILLIAM R. RAPP, A.B.,
Assistant Coach

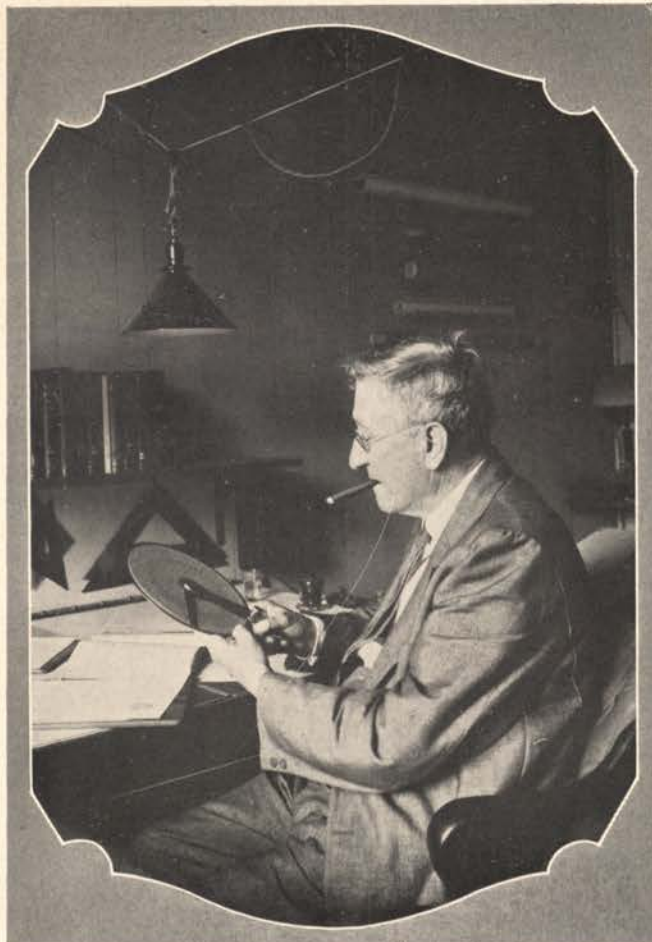
JUNIOR BROWN, A.B.,
Assistant Coach

RICHARD DWIGHT DUFF, B.S., M.S.,
Instructor in Chemistry

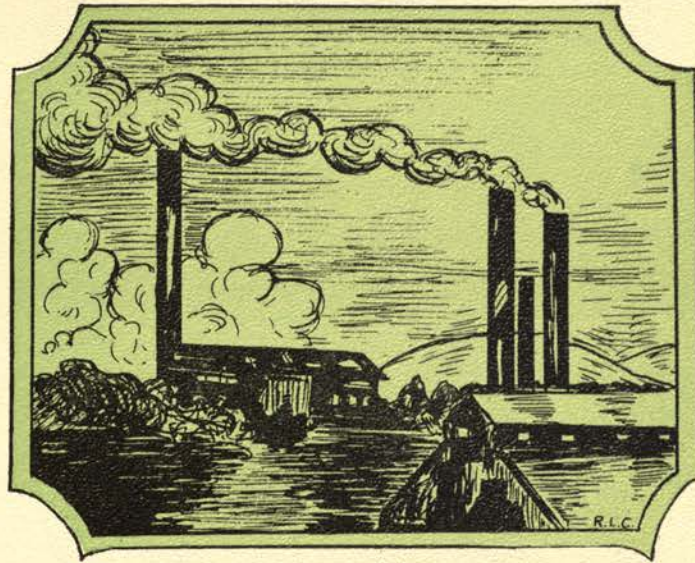
EDWARD KAHLBAUM,
Business Manager

NOEL HUBBARD,
Assistant Registrar





GEORGE REINALD DEAN
Professor of Mathematics



Coal

Coal has furnished the greater part of the power and heat which has helped to build our modern civilization. To the mining engineer is due the credit for supplying the coal so widely and extensively used.

Classes



Seniors



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of Technology
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Theta Tau, Phi Kappa Phi
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Drury College
Civil Engineering





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Independent
Tau Beta Pi, Senior Council (alt.),
Phi Kappa Phi, A. I. E. E.
University of Illinois
Electrical Engineering



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Kappa Sigma, Vice-Chairman A. I. E. E. '29-'30
Southeast Missouri State Teachers College
Electrical Engineering



ORION B. BOARD Oronogo, Mo.
Independent, Vice-President Senior Council,
Mo. Mining and Met. Association
Mine Engineering



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Civil Engineering



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Pres. Tau Beta Pi, '29-'30, Senior Council,
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Pres. A. S. C. E., '29-'30
McKendree, Washington University
Civil Engineering



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Vice-Chairman A. I. E. E., '29-'30
Southern Illinois Normal
Electrical Engineering



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Lambda Chi Alpha, Theta Tau, Satyr,
Pres. Athletic Association, '29-'30
Civil Engineering





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Independent, Phi Kappa Phi,
Cadet Major, '29-'30, A. I. M. M. E.
Mine Engineering



JOSEPH WALLACE GRAYBEAL Avilla, Mo.
Independent, Valedictorian, Tau Beta Pi,
Phi Kappa Phi,
Sec'y Mo. Mining and Met., '29-'30
Mine Engineering



LEONARD LIONEL ELLIS Oruro, Bolivia,
S. A.
Sigma Nu, Senior Council,
Mo. Mining and Met. Association
Massachusetts Institute of Technology
Mine Engineering



CLAUDE JAMES GRIMM Rolla, Mo.
Independent, Senior Council (alt.)
Mine Engineering

SPENCER ALLAN STONE Chillicothe, Mo.
Pi Kappa Alpha, Senior Council,
M. S. M. Players, Mo. Mining and Met. Ass'n
Kansas City Junior College
Mine Engineering



GEORGE FREMONT HEATH St. Louis, Mo.
Sigma Nu, Theta Tau, A. S. C. E.
Civil Engineering



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Satyr, A. I. E. E.,
Treas. Junior Class, Treas. Senior Class
Electrical Engineering



RUBY ELIZA HELL
Phi Kappa Phi
Drury College
General Science

Rolla, Mo.





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Independent
Ceramic Engineering



EDGAR CARROLL LONG Rolla, Mo.
Kappa Sigma, Tau Beta Pi, Satyr,
Pres. Theta Tau, '29-'30,
Mo. Mining and Met. Ass'n
Mine Engineering



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Mercier Club, Pres. Mining and Met. Ass'n,
'29-'30, Vice-Pres. Theta Tau, '29-'30,
Quo Vadis, Satyr,
Vice-Pres. Athletic Ass'n, '29-'30
Parsons Junior College
Mine Engineering



HARRY FREDERICK KIRKPATRICK Trenton, Mo.
Pi Kappa Alpha, Satyr, Football '29
Electrical Engineering

CALDWELL HAROLD JENNINGS Rolla, Mo.
Independent, A. S. C. E.
Civil Engineering



CHARLES CARR JUHRE Rogers, Ark.
Sigma Nu, Satyr,
Bus. Mgr. Athletic Ass'n, '29-'30
Mo. Mining and Met. Ass'n
Mine Engineering



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Pres. Ira Remsen Society, '29-'30,
Senior Council, R. O. T. C. Band,
Rollamo Board of Control
Chemical Engineering



WILLIAM KELLER Kansas City, Mo.
Theta Xi, Prospector, Theta Tau
Washington University
Mechanical Engineering





LLOYD RICHARD LACY St. Louis, Mo.
Triangle, Senior Council, Pres. Senior Class,
Football '29, Capt. '28, '27, '26,
Mo. Mining and Met. Ass'n.
Mine Engineering



JOHN LEE MCCUMBER Lewiston, Ill.
Independent, Pres. Senior Council '29-'30
Mo. Mining and Met. Ass'n.
Mine Engineering



ALLEN RICHARD MAUNE Union, Mo.
Pi Kappa Alpha, Satyr,
Miner Board '26, '27, '28, '29
Ceramic Engineering



EDWARD MEEKA St. Louis, Mo.
Independent, Senior Council, Phi Kappa Phi,
R. O. T. C. Band,
Sec'y-Treas. Orton Society
Ceramic Engineering

PERCY ELLIOTT MOORE Kansas City, Mo.
Triangle, Quo Vadis, A. S. C. E.
Civil Engineering



FREED RIFAT Constantinople, Turkey
Independent, Mo. Mining and Met. Ass'n,
Miami University, Antioch College,
Colorado School of Mines
Mine Engineering



JAMES FITZGERALD ORR Joplin, Mo.
Sigma Nu, Mo. Mining and Met. Ass'n,
DePauw University
Mine Engineering



GEORGE AVA PAGE Stotesbury, Mo.
Kappa Alpha, Satyr, Orton Society,
Rollamo Board '27, '28, '29
Ceramic Engineering





RICHARD FREDERIC PAYNE Moline, Ill.
 Kappa Sigma, Mo. Mining and Met. Ass'n.
 University of Illinois
Mine Engineering



WILLIAM RAYMOND POWELL Rolla, Mo.
 Independent, Tau Beta Pi, Orton Society
Ceramic Engineering



CHARLES EDWARD ROSS Orrick, Mo.
 Independent, R. O. T. C. Band,
 A. S. C. E.
Civil Engineering



JOHN GEORGE ROY Vernon, N. Y.
 Independent, A. I. E. E.
Electrical Engineering

BOOKER HALL RUCKER, JR. Rolla, Mo.
Kappa Sigma, Theta Tau,
Vice-President Senior Class, A. S. C. E.
Civil Engineering



HENRY OLIVER SCHEER Holden, Mo.
Lambda Chi Alpha, A. S. C. E.
Park College
Civil Engineering



WILLIAM THOMAS SHARP
Henryetta, Okla.
Lambda Chi Alpha, Theta Tau, Satyr,
Miner Board '26, '27, '28, '29,
Mo. Mining and Met. Ass'n, Senior Council,
Football '27
Mine Engineering



ANDREW CLYDE SHEARER Columbus, Kan.
Triangle, Satyr,
Mo. Mining and Met. Ass'n,
Football '27
Mine Engineering





MYRON FORD THOMAS Cleveland, Ohio
Kappa Alpha, Theta Tau, Senior Council,
Bus. Mgr. M. S. M. Players '29-'30,
Mo. Mining and Met. Ass'n.
Metallurgy



EUGENE HARVEY WOODMAN Rolla, Mo.
Independent, Phi Kappa Phi
Northwest Missouri State Teachers College
Electrical Engineering



Juniors



Class of 1931

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F. H. CAMPBELL.....	<i>Secretary</i>





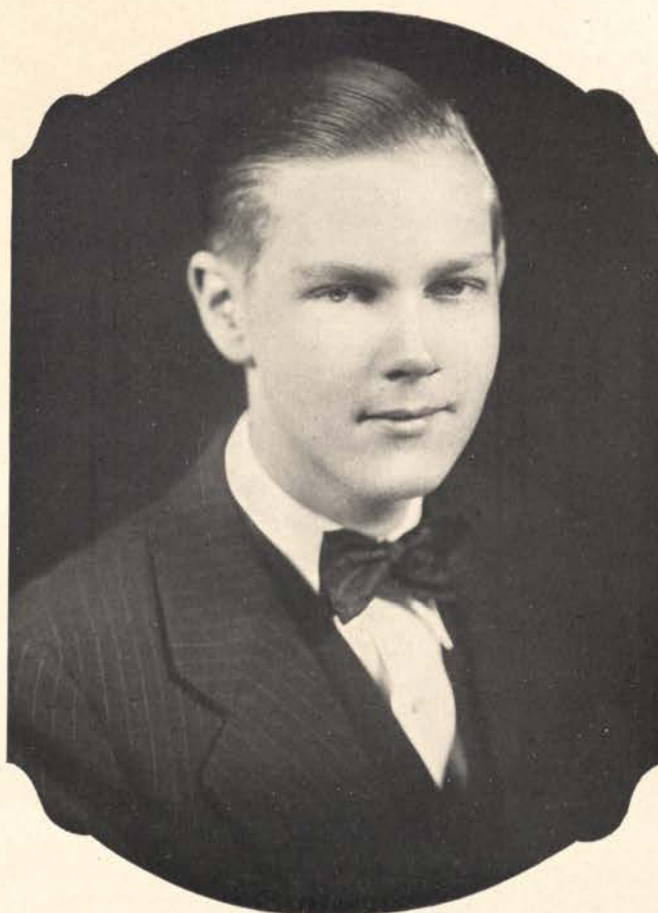
Juniors

N. W. Adolph.....	Easton, Pa.	F. S. Macklin.....	Kansas City, Mo.
V. F. Ancell.....	Higbee, Mo.	W. H. Makin.....	Pleasant Beach, N. J.
B. A. Barnes.....	Kansas City, Mo.	E. C. Meckfessel.....	St. Louis, Mo.
A. R. Baron.....	St. Louis, Mo.	J. C. Miles.....	Potosi, Mo.
W. Brewer.....	Mayfield, Ky.	A. A. Mitchell.....	Rolla, Mo.
W. R. Broadus.....	Chillicothe, Mo.	S. W. Moran.....	Mt. Olive, Ill.
F. W. Brooks, Jr.....	Cimmason, N. M.	H. J. Moreland.....	St. James, Mo.
F. Campbell.....	Kansas City, Mo.	T. R. Morgan.....	Odessa, Mo.
R. L. Campbell.....	Kansas City, Mo.	F. X. Morrison.....	St. Louis, Mo.
H. C. Chaden.....	Chicago, Ill.	M. F. Murphy.....	Webster Groves, Mo.
G. N. Clark.....	Carmi, Ill.	B. E. Orchard.....	Springfield, Mo.
J. N. Conley.....	Tulsa, Okla.	C. F. Page.....	Harrisburg, Nebr.
E. K. Damotte.....	Granite City, Ill.	J. N. Palmer.....	Springfield, Mo.
J. C. DeFoe.....	Sedalia, Mo.	R. S. Park.....	Elmira, N. Y.
J. H. Delaney.....	Pittsburgh, Kan.	A. L. Pertici.....	University City, Mo.
W. E. Donaldson.....	Ontario, Calif.	P. J. Picco.....	St. Louis, Mo.
T. F. Donlin.....	Central Islip, N. Y.	Miss A. O. Powell.....	Rolla, Mo.
E. P. Dowding.....	Sedalia, Mo.	W. H. Power.....	Spokane, Wash.
D. B. Draper.....	Joplin, Mo.	L. F. Pummill.....	Crocker, Mo.
B. R. Elliott.....	Shawnee, Okla.	L. E. Reeve.....	Roadhouse, Ill.
E. R. Epperson.....	Blackwater, Mo.	A. J. Reid.....	Okmulgee, Okla.
C. N. Fisher.....	Hannibal, Mo.	H. J. Roesser.....	Buffalo, N. Y.
B. S. Followill.....	Rolla, Mo.	J. E. Scally.....	St. Louis, Mo.
J. F. Frewer.....	St. Louis, Mo.	W. B. Schofield.....	Eagle Pass, Tex.
I. W. Friedman.....	St. Louis, Mo.	J. D. Shelton.....	Grandview, Mo.
T. M. Gaffey.....	Parsons, Kan.	R. B. Sherrill.....	Vernon, Tex.
T. V. Galbraith.....	Jefferson City, Mo.	E. J. Sperling.....	Cape Girardeau, Mo.
V. A. C. Gevecker.....	St. Louis, Mo.	V. F. Stein.....	Jamestown, N. Y.
R. C. Graham.....	Jefferson City, Mo.	J. E. Stokes.....	Hancock, Mo.
A. W. Gunther.....	St. Louis, Mo.	Miss D. A. Swain.....	Bartlesville, Okla.
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W. C. Hall.....	Aurora, Ill.	R. P. Thomas.....	Kansas City, Mo.
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H. C. Harkes.....	Marion, Ill.	A. J. Tiefenbrun.....	St. Louis, Mo.
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M. Hassler.....	Anna, Ill.	G. L. Traband.....	Wood River, Ill.
E. W. Heilig.....	Kirkwood, Mo.	M. E. Ueltzen.....	Rolla, Mo.
H. R. Herron.....	Rolla, Mo.	R. T. Wade.....	Flat River, Mo.
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A. W. Hoggard.....	Piedmont, Mo.	E. G. Walter.....	Elgin, Ill.
R. G. Holmes.....	St. Louis, Mo.	W. H. Wamsley.....	Maryville, Mo.
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M. R. James.....	Granite City, Ill.	C. S. White.....	Kirkwood, Mo.
R. A. Kelly.....	Rolla, Mo.	C. E. Wilhite.....	Kansas City, Mo.
R. E. Lee.....	Rolla, Mo.	R. Z. Williams.....	Rolla, Mo.
C. W. McCaw.....	Rosiclare, Ill.	H. W. Wilson.....	Islip, N. Y.
R. W. McClusky.....	Ft. Scott, Kan.	L. A. Wilson.....	Crane, Mo.
R. E. McCormick.....	Osceola, Ia.	W. H. Woelfer.....	St. Louis, Mo.
W. L. McCracken.....	Bartlesville, Okla.	H. L. Wolfe.....	Billmore, N. Y.
Pat McDonald.....		W. H. Worseck.....	St. Louis, Mo.



Sophomores

CLASS OF 1932



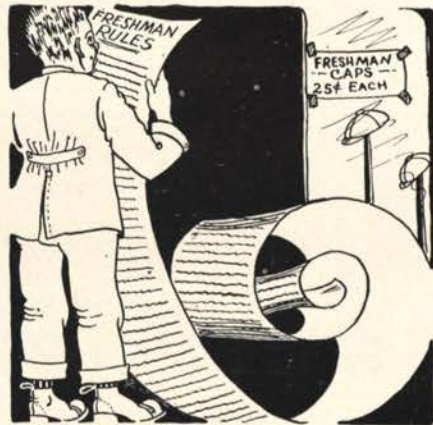
OFFICERS

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J. A. POLLAK	<i>Vice-President</i>
S. L. DAVIS	<i>Treasurer</i>
J. J. OFFUTT	<i>Secretary</i>



Sophomores

U. E. Achuff.....	St. Louis, Mo.	F. C. Kolhmetz	Derby, N. Y.
O. M. Andres	Belleville, Ill.	G. H. Krell	Naugatuck, Conn.
K. R. Baker	Cuba, Mo.	R. M. Lacy	St. Louis, Mo.
A. R. Bennett	Springfield, Ill.	T. G. LaFollette	Ft. Madison, Ia.
J. Berkenbosch	St. Louis, Mo.	R. L. Larkin	Clarkton, Mo.
C. F. Berthold	Kirkwood, Mo.	G. L. Leisher	St. Louis, Mo.
R. A. Bertram	Belleville, Ill.	R. H. Lundius	St. Louis, Mo.
F. D. Birt	Decatur, Ill.	M. McBrian	Shawnee, Okla.
W. Bornstein	St. Louis, Mo.	J. R. McCarron	St. Louis, Mo.
R. L. Bowdle	Booker, Tex.	R. L. McCreight	Jefferson City, Mo.
J. E. Bowencamp	St. Louis, Mo.	J. J. McGrath	St. Louis, Mo.
E. R. Brigham	St. Louis, Mo.	A. S. Macke	Belleville, Ill.
H. J. Bruegging	Jefferson City, Mo.	F. J. Malik	Elyria, Ohio
V. O. Burkhalter	Jefferson City, Mo.	J. Matsek	Roselle, N. J.
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R. M. Carpenter	St. James, Mo.	H. W. Meyer	St. Louis, Mo.
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H. L. Chamberlain	Rolla, Mo.	R. Monroe	Edwardsville, Ill.
B. H. Clemmons, Jr.	St. Louis, Mo.	J. I. Moore, Jr.	Dexter, Mo.
E. O. Crawford	St. Louis, Mo.	M. H. Murray	Rolla, Mo.
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C. A. Elsea	Sweet Springs, Mo.	H. T. Pajerski	Schenectady, N. Y.
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J. H. Hell	Rolla, Mo.	Miss M. B. Smith	Rolla, Mo.
R. F. Hippler	St. Louis, Mo.	J. E. Stevens	Weaubleau, Mo.
A. J. Hoeman	Washington, Mo.	J. W. Stormont	St. Louis, Mo.
E. D. Hoertel	St. Louis, Mo.	H. C. Stouffer	Fairfax, Mo.
R. Horn	Rushville, Mo.	J. T. Sturm	St. Louis, Mo.
R. F. Hubbel	Rolla, Mo.	H. F. Thompson	Rolla, Mo.
O. P. Hunt	Troy, N. Y.	F. M. Thoroughman	St. Louis, Mo.
F. W. Hurd	Hannibal, Mo.	H. O. Tittle	Evansville, Ill.
A. C. Jenczewski	Sherril, N. Y.	E. M. Tomlinson	Springfield, Mo.
E. R. Jenkins	Jefferson City, Mo.	J. L. Towner	Smyrne, N. Y.
L. K. Johnson	Maysville, Mo.	B. L. Ulrey	Eldon, Mo.
M. M. Jones	Hannibal, Mo.	J. O. Warner	University City, Mo.
A. W. Jurvic	Steubenville, Ohio	A. A. Wehrman	Higginsville, Mo.
E. L. Karracker	Jonesboro, Ill.	L. E. Wheeling	St. Louis, Mo.
A. W. Kassay	North Tonawanda, N. Y.	R. H. Wiethrop	St. Louis, Mo.
R. S. Kauffman	Lewiston, Pa.	F. G. Wilson	Islip, N. Y.
W. T. Kay	Mexico, Mo.	W. O. Woods	Stillwater, Okla.
V. L. Klesath	Rutland, Ill.	H. B. Wyrick	Waynesville, Mo.
G. L. Koch, Jr.	Belleville, Ill.	F. J. Zvanut	St. Louis, Mo.



Freshmen



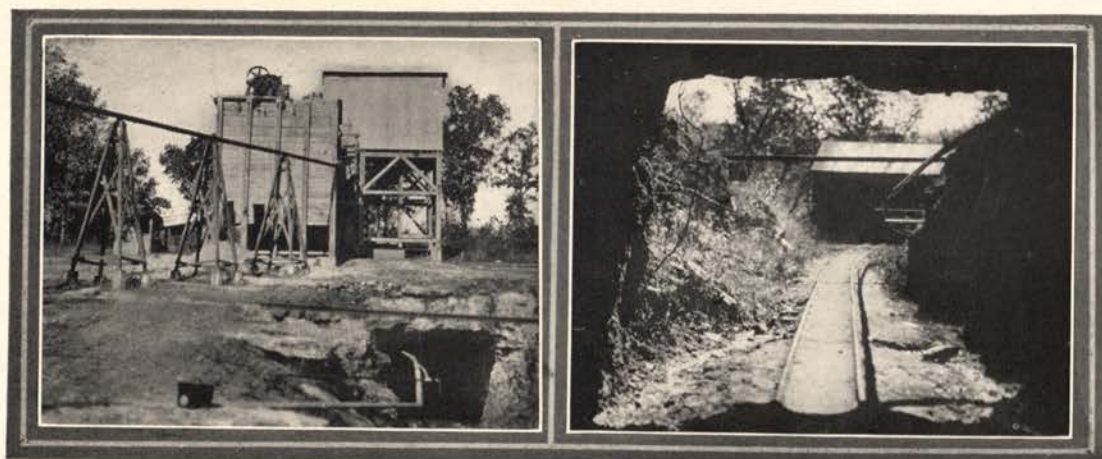
Class of 1933

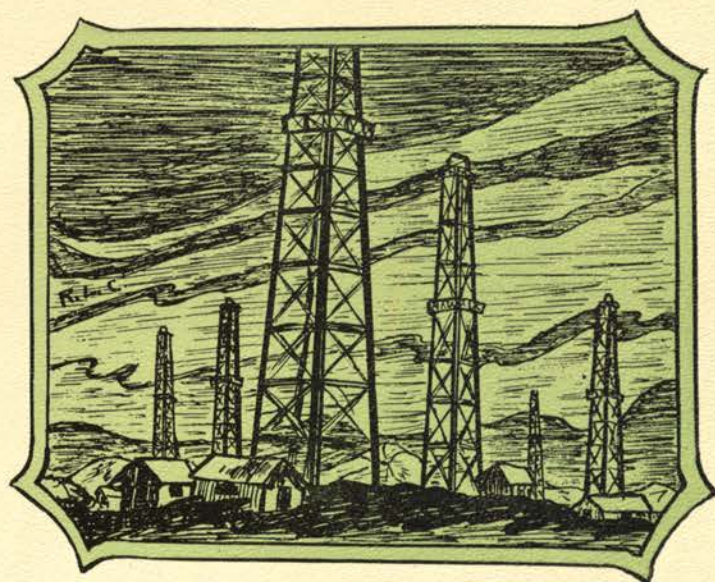
OFFICERS

C. E. LENOX.....	<i>President</i>
H. W. SHORT.....	<i>Vice-President</i>
CHAS. RODD.....	<i>Treasurer</i>
W. E. KOUNTZ.....	<i>Secretary</i>









Petroleum

Petroleum is highly essential to modern civilization. Little known a hundred years ago, but today it constitutes the largest of the mineral industries. Its production is only a small part of the mining engineer's service to the world.

Athletics



Football



The Squad

TRIBUTE AND PROPHECY

Hats off! The band has played "Silver and Gold" and is swinging into the "Mining Engineer" for the last time during the 1929 gridiron season. Hats off! Thus we pay our tribute to a Miner team that has nearer approached the heyday of our 1915 football glories than any of several seasons—thus we pay our tribute to the coaches and reserves who made this powerful eleven possible.

So the 1929 gridiron curtain has been run down, leaving the student body with the pleasant sense of having supported a victorious team, and looking forward in anticipation to the 1930 series of melees.

And of the twenty-one lettermen, only two will be lost through the diploma route. Then, too, there will be the usual gleanings of new and good material. What better auguries of victory could there be than these—when the Golden Wave will have become a reality rather than a name?

Hats off again, Miners! The band, again, is playing "Silver and Gold." It is 1930, and the sound of leather meeting leather is heard on Jackling Field. A veteran Miner team is enlarging upon the great work of 1929 by disposing of a tougher schedule with a clean slate of victory. Let this be our prophecy.



HAROLD GRANT
Director of Athletics and Head Coach

JUNIOR BROWN
Assistant Coach

WILLIAM R. RAPP
Assistant Coach



LACY, guard; CAPTAIN HASSLER, fullback; SCHOFIELD, halfback; THORNTON, quarterback

MINERS 13—KIRKSVILLE TEACHERS 12

In the early stages of this game the Teachers ran through the Miner line and around the ends almost at will. During the first three quarters they succeeded in scoring two touchdowns, but failed to make the tries for points.

With about ten minutes to play and a twelve point lead to overcome, the Miner gridman began to play real football. Led by the plunges of Thornton and the passing of Hassler, the Miners fought and tore their way to two touchdowns. The successful try for one of the goal points won the first game of the season for them.

MINERS 6—LOMBARD 7

The Miners lost their first home game of the season when a fast eleven from Lombard emerged from the contest on the large end of a seven to six score. The Miner team played splendid football throughout the game, but were unable to account for more than one touchdown, while the wide kick in trying for the extra point prevented them from tying the score.

The Lombard victory was due entirely to the playing of Nichols, a fast little quarterback. He took the Miners' kick-off for the second half well down in his own territory and ran through the entire Miner team for a touchdown.

Thornton starred for the Miner eleven with his consistent ground-gaining line plunges.





TOMLINSON, *center*; RUNDER, *end*; STURM, *tackle*; YARBER, *tackle*

MINERS 73—MCKENDREE 0

McKendree offered a very weak defense against the Miners, and the score indicates how this weakness was taken advantage of. The visitors brought a crippled team to battle against the Crimson Wave, and several injuries during the game placed them at a still greater disadvantage.

Throughout the game the heavier Miner team completely outplayed the McKendree eleven. Touchdowns were made frequently, and with very few plays.

Every man who suited up for the Miners was able to get into the game.

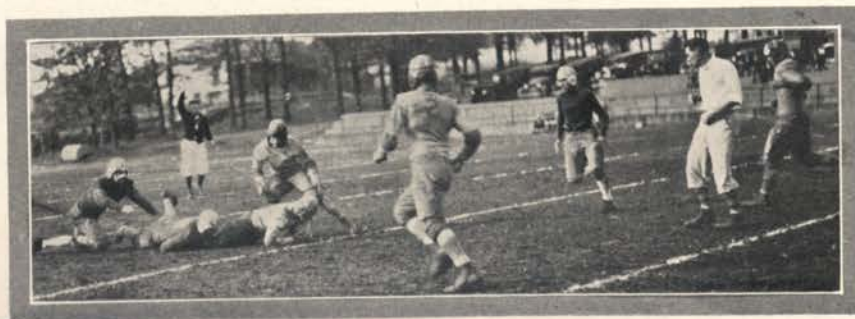
MINERS 19—CENTRAL 0

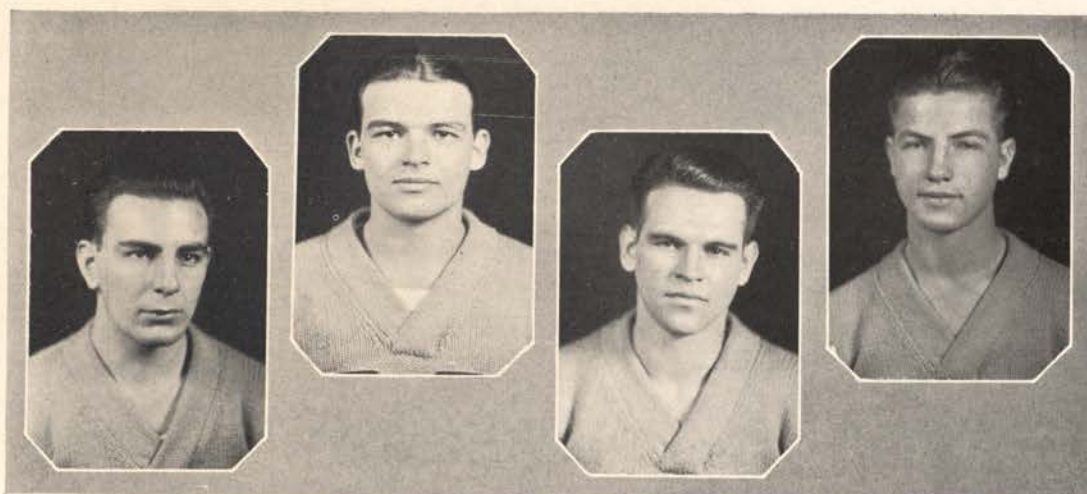
The Miners were successful in getting away to a flying start in the race for the conference title when they upset the Central gridmen to the tune of 19 to 0. The Miners put forth a steam roller attack that soon had the title-holding Eagles gasping for breath.

The Miner eleven seemed to function almost perfectly, both on the defense and the offense. They played excellent football throughout the contest and were able to take advantage of all the breaks that came their way. Passes proved instrumental in adding many yards for the Miners, although most of the gains were made through the line.

Hassler and Thornton proved a good combination to crash through the line for gains. The Central strong line soon weakened under the strain. Hyland distinguished himself in broken field running on several occasions.

The real strength of the Miner team was tested in this tilt with one of the strongest teams in the conference.





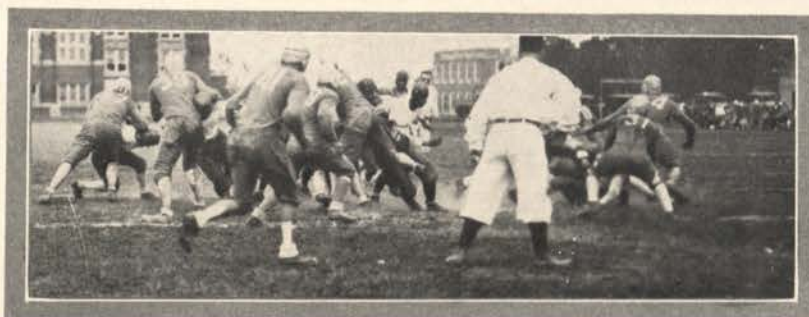
KOCH, *tackle*; KIRKPATRICK, *center*; KELLY, *halfback*; GIBSON, *tackle*

MINERS 0—WESTMINSTER 12

The Miners were tumbled from their lead in the M. C. A. U. conference by the fast playing, hard hitting Blue Jays from Westminster. Boyd, outstanding star quarterback for the Blue Jays, again led his team to a well-earned victory over the Miner representatives. His long punts far outreached the best efforts of the kickers for the Miner eleven, and his deceptive plays, aided by his shifty running, counted much toward a victory for his team.

In spite of Boyd's playing, the Miners succeeded in holding their own in yards from scrimmage but seemed to lack the vital punch when it was most needed. The Miners were within easy scoring distance several times but each time lost the ball by a fumble or an incompleted pass. This defeat upset any Miner aspiration for the title in the M. C. A. U. conference.

Hassler and Schofield were most successful in adding yardage for the Miners in this clash, while Hassler's passing also proved of much value.





HYLAND, *halfback*; MALIK, *end*; WILLIAMS, *quarterback*; LONDRIGAN, *end*;
ANDRES, *guard*

MINERS 28—TALEQUAH 0

The Miners journeyed to Oklahoma and showed the Northeastern State Teachers just how football was played in Missouri. All during the game the Miner passing machine was functioning almost perfectly. Hassler did most of the passing, while Malik was usually on the receiving end. Except for the very first part of the game, the Redmen were on the defensive practically all the time.

The game was played in Muskogee before one of the largest crowds of the season, and was scheduled as a Y. M. C. A. benefit.

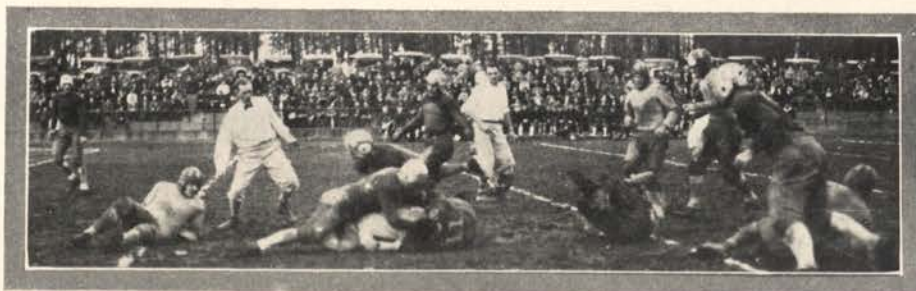
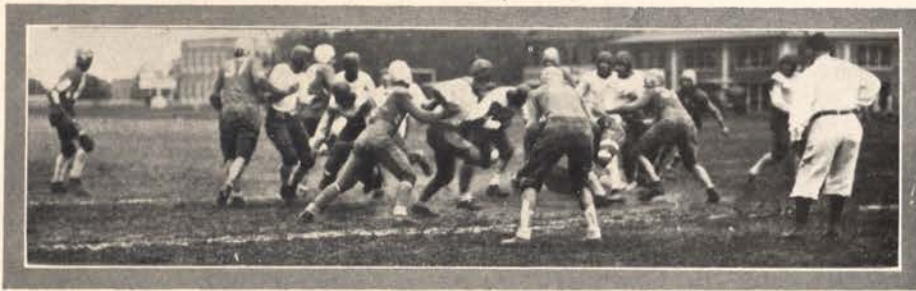
MINERS 19—DRURY 27

Doped to win by several touchdowns, the Miners suffered defeat in the last game of the season with Drury. Over-confidence and a very weak pass defense permitted the Panthers to win the thirty-third annual contest between the two colleges.

The Miners more than doubled the yards gained by the Panthers from scrimmage, but their inability to stop any kind of a pass over the line cost them the game. The Miner line was firm enough, and all of the touchdowns made by Drury were from passes.

Schofield was the most consistent ground gainer for the Miner eleven, and particularly starred in running back kicks. Thornton continued to play his usual hard-hitting game with excellent results.







Basketball

Basketball--1930

As far as the actual winning of games is concerned, the Miner quintet had a very unsuccessful season, but there is more to a sport than that. In spite of the fact that the Silver and Gold were driven down to defeat on numerous occasions during the past season, the students and rooters showed a brand of pep and enthusiasm that has not been witnessed around here for some time. Even when the score was doubled in favor of the opponents the backers of that Golden Wave never at any time ceased to voice their encouragement to the fellows who were doing their best for the Alma Mater. The fellows in turn did their share on the floor; they never let down once in their efforts to secure a victory for the Miners.

Coach Rapp was forced to build up the best five possible around the three letter-men who were back from last year. The team started the season right by gaining a narrow edge on Drury and another from Tarkio, but after these games the whole squad seemed to hit a slump from which they emerged only at times. In view of the fact that of the nine men recommended for letters by Coach Rapp not one of them will be lost by graduation and all will be eligible to compete next season, wonderful results are expected in 1930-31.

Summary of the games:

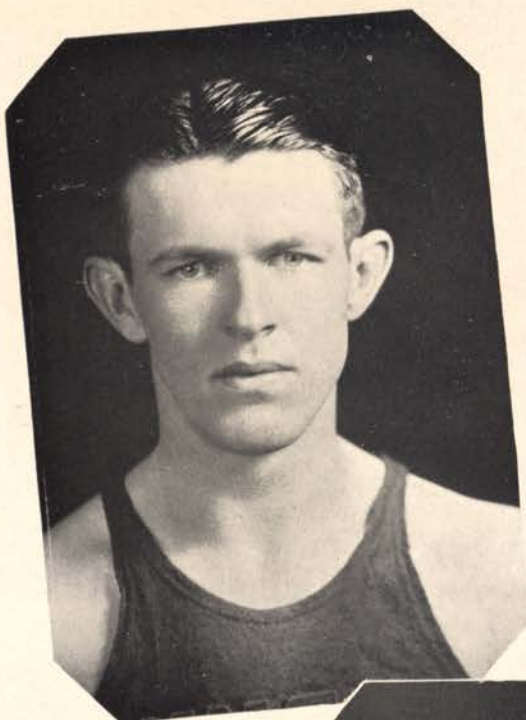
- Dec. 14. Concordia 38—Miners 20. In the opening game of the season the Miners looked great.
- Jan. 10. Shurtleff College 47—Miners 23. An early season game which conditioned the fellows for the conference games which were to follow.
- Jan. 18. Miners 33—Drury 32. The Miners really hit their stride in this game. It was a closely contested clash which instils enthusiasm into any student.
- Jan. 25. Springfield Teachers 54—Miners 27. The team went into a slight slump which, plus the small court used by the Teachers, forced the Miners to take a back seat.
- Jan. 29. William Jewell 40—Miners 32. The Golden Wave started out fast and gained a good lead, but their defense became ragged near the end of the contest.
- Jan. 31. Tarkio College 36—Miners 27. After arriving in Tarkio about an hour before the game the men were not capable of playing their best.
- Feb. 1. Miners 14—Tarkio 9. Coach Rapp had his men change to a slow breaking offense. The result—an easy victory for the Miners.

Basketball, Continued

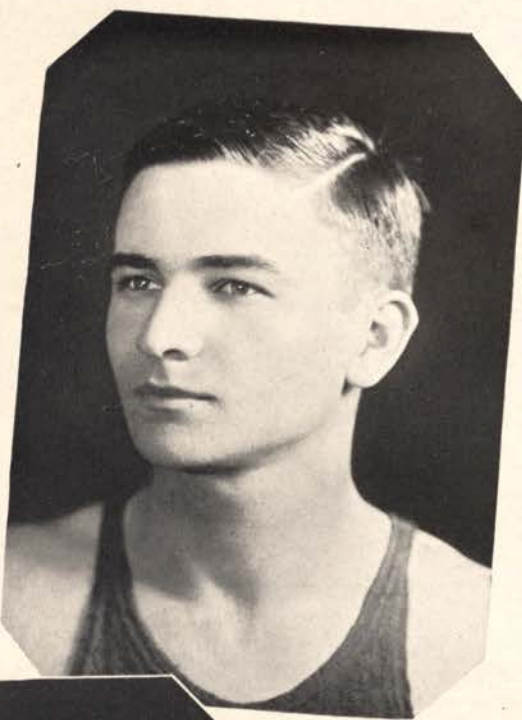
- Feb. 5. Westminster 41—Miners 17. The inexperienced Miner squad proved to be no match for the veterans of the floor representing the Blue Jays.
- Feb. 7. Springfield Teachers 53—Miners 32. The Miners had no more luck in stopping the sharp shooting Teachers in the return engagement than in the initial contest.
- Feb. 20. Westminster 26—Miners 12. After a good rest the Miners really presented some opposition to the Blue Jays, but the hard rally by Westminster had the desired result for the visitors.
- Feb. 21. Central 61—Miners 31. The best efforts offered by the Golden Wave failed to gain a victory from the championship Eagles of Central College.
- Feb. 22. William Jewell 31—Miners 25. A close game with the breaks in favor of the opponents. The three game trip was beginning to tell on the Miners.
- Feb. 25. Central Wesleyan 32—Miners 22. The Miners failed to break the Central Wesleyan habit of winning.
- Feb. 27. Drury 45—Miners 16. The Miner quintet remained in a slump and the Panthers had little trouble in piling up a good score.
- Mar. 6, 7, 8. The Miners entered the M. C. A. U. tournament held at Liberty. They drew Drury as their first opponents and lost. The Miner aggregation ousted the Culver-Stockton five in the first round of the consolation bracket but dropped the next round to Missouri Valley.

LETTER-MEN

Heilig, forward; H. Thornton, forward; Hanley, forward; Kenward, forward; Gibson, center; Tompach, center; Tittle, guard; Tieman, guard; Moreland, guard.



HEILIG



TOMPACH



MORELAND



Track

1929 Track Review

The track season of '29 brought no great glory to M. S. M. The squad participated in five meets during the season, but did not win a single one. However, this deplorable condition cannot be blamed upon the team which represented the school, but rather it is the fault of the conditions under which the coaching staff had to work. Those students who were here will remember that there were five letter-men in school who would not go out for track, due to certain troubles which arose over the failure of the Athletic Association to present gold basketballs to several of the basketball men who had served their school on the courts for four years.

However, all of that is neither here nor there, but it does explain to some extent the poor showing made by the Miners.

The team was composed mostly of Freshmen and Sophomores, and to these men we pay tribute. They fought hard and well, but their willingness was of little avail against teams of three and four years training.

Season's Record

DRURY vs. MINERS

April 22 found the Drury track squad taking an interesting and hard-fought battle from the Miners.

The veteran track stars of Drury outclassed the Miners in the track events, but the field honors remained with us.

Johnson of the Miners had a wonderful day, and was high point man of the meet. He took two first and two second places.

Robb of Drury got a close second place with three firsts.

Davis, Carpenter, Monroe and Barth made good showings for the Miners and great things are expected of them in coming years.

SUMMARY OF EVENTS

100-yard dash—Robb, (D), 1st; Talbot, (D), 3rd; Schofield, (M), 3rd. Time 10:1.

Mile run—Davidson, (D), 1st; Coil, (M), 2nd; McKinley, (D), 3rd. Time 4:50:2.

220-yard dash—Robb, (D), 1st; Davis, (M), 2nd; Phillips, (D), 3rd. Time 24.

Pole vault—Woodward, (M), Mason, (D), tied for 1st; Davenport, (M), 3rd. Height 9 ft. 9 in.

Shot put—Johnson, (M), 1st; R. Lacy, (M), 2nd; Bush, (D), 3rd. Distance 40 ft. 10½ in.

High hurdles—Talbot, (D), 1st; Sewell, (D), 2nd; Wehrman, (M), 3rd. Time 17:2.

440-yard dash—Rice, (D), 1st; Carpenter, (M), 2nd; Phillips, (D), 3rd. Time 53:3.

Discus—Johnson, (M) 1st; Decker, (D), 2nd; Tomlinson, (M), 3rd. Distance 116 ft. 2¾ in.

880-yard run—Davidson, (D), 1st; Monroe, (M), 2nd; Wilson, (M), 3rd. Time 2:9:5

High jump—Bush, (D), 1st; Schofield, (D), 2nd; Sewell, (D), 3rd. Height 5 ft. 9 in.

Low hurdles—Talbot, (D), 1st; Barth, (M), 2nd; Sewell, (D), 3rd. Time 28:2.

Broad jump—Robb, (D), 1st; Johnson, (M), 2nd; Schofield, (M), 3rd. Distance 20 ft. 1¾ in.

Two mile run—E McKinley, (D), 1st; R. McKinley, (D), 2nd; Green, (M), 3rd. Time 10:20.

Javelin throw—Bush, (D), 1st; Johnson, (M), 2nd; Sanders, (D), 3rd. Distance 160 ft. 11¼ in.

Half-mile relay—Drury 1st; Miners 2nd. Time 1:36:1.

Triangular Track Meet

April 27, 1929

In the middle of a rain and wind storm Westminster ran off with all the honors of the Triangular Meet consisting of Westminster, Central Wesleyan, and M. S. M. In spite of the inclement weather the meet was a most interesting one and the rain-soaked crowd stayed until the very end.

This meet held the same sad story for the Miners; just a matter of inexperienced men losing to veterans of many meets. Westminster took first honors with 71 points. Central Wesleyan was second with 47 points, while the Miners managed to amass a total of 25 points.

McAnelly of the Blue Jays took the high point man's honors with a total of 18 points.

All in all, it was a good meet, and afforded excellent experience to our team.

SUMMARY OF EVENTS

100-yard dash—Thurman, (C), 1st; Braste, (C), 2nd; Schofield, (M), 3rd. Time 10:4.

220-yard dash—Brace, (C), 1st; Davis, (M), 2nd; Thurman, (C), 3rd. Time 23:02.

440-yard dash—Aute, (W), 1st; Parlts (W), 2nd; Morsees (C), 3rd. Time 55. sec.

880-yard run—Aute, (W), 1st; Bosman, (W), 2nd; Monroe, (M), 3rd. Time 2:10:09.

Mile run—Crain, (C), 1st; McAnelly, (W), 2nd; Coil, (M), 3rd. Time 4:57:06.

Two mile run—Crain, (C), 1st; McAnelly, (W), 2nd; Green, (M), 3rd. Time 11:48:02.

120 high hurdles—Winters, (C), 1st; Boyd, (W), 2nd; Talbot, (W), 3rd. Time 16:06.

220 low hurdles—Talbot (W), 1st; Winters, (C), 2nd; Wiley, (W), 3rd. Time 26:07.

Broad jump—Schofield, (M), 1st; Boyd, (W), 2nd; Winters, (C), 3rd. Distance 21 ft.

Shot put—McAnelly, (W), 1st; Boyd, (W), 2nd; Johnson, (M), 3rd. Distance 41 ft. 11 1/4 in.

Discus throw—McAnelly, (W), 1st; Johnson, (M), 2nd; Boyd, (W), 3rd. Distance 128 ft. 5 in.

Pole vault—Butler, (C), 1st; Boyd, (W), 2nd; Woodward, (M), 3rd. Height 10 ft. 9 in.

High jump—Edwards and Lamkin tied for 1st and 2nd, Westminster. Schofield, (M), 3rd. Height 5 ft. 9 in.

Javelin—McAnelly, (W), 1st; Wehrman, (M), 2nd; Johnson, (M), 3rd. Distance 146 ft. 2 in.

Half mile relay—Central Wesleyan. Time 1:37.

Mile relay—Westminster. Time 3:48:08.

1929 Track Review, Continued

SPRINGFIELD TEACHERS vs. MINERS

May 3, 1929.

The Teachers met a bigger and better team than any we had placed on the field throughout the spring, and it was only after a hotly contested meet that they were able to depart winners by a very slight margin.

The Miner team snapped out of it, and took six first places with a great many more seconds and thirds. Again Johnson hit his stride and came out high point man of the meet with a total of sixteen points.

Begins to look as if the old Miner spirit was coming back, and the prospects seem even brighter for the future teams.

SUMMARY OF EVENTS

100-yard dash—Schofield, (M), 1st; Wright, (S), 2nd; Abbott, (S), 3rd. Time 10:7 sec.

880-yard run—Coil, (M), 1st; Monroe (M), 2nd; Wise, (S), 3rd. Time 2:7.

120 high hurdles—Martin, (S), 1st; Wehrman, (M), 2nd; Wallers (S), 3rd. Time 18.5.

440-yard run—Abbott, (S), 1st; Brown, (S), 2nd; Zell, (M), 3rd. Time 54.8.

220 low hurdles—Wardell, (S), 1st; Barth, (M), 2nd; Martin, (S), 3rd. Time 28.3.

Shot put—Johnson, (M), 1st; Lacy, (M), 2nd; Wise, (S), 3rd. Distance 40 ft. 9 $\frac{1}{4}$ in.

Pole vault—May, (S), 1st; Cheny, (S), 2nd; Woodward, (M), 3rd. Height, 10 ft. 6 in.

Discus—Leonard, Johnson, tied for 1st. Wise,

(S), 3rd. Distance 118 ft. 7 in.

High jump—Schofield, (M), and Mickle, (S), tied for 1st; Russell, (S), 3rd. Height 5 ft. 5 in.

Javelin—Johnson, (M), 1st; Morris, (S), 2nd; Wehrman, (M), 3rd. Distance 159 ft. 1 in.

Broad jump—Schofield, (M), 1st; Johnson, (M), 2nd; Wardells, (S), 3rd. Distance

Half mile relay, Springfield. Time, 1:35:7.

One mile relay, Springfield. Time 3:40.

Mile run—Fite, (S), 1st; Jump, (S), 2nd; Coil, (M), 3rd. Time 4:44:4.

Two mile run—Fite, (S), 1st; Green, (M), 2nd; Jarvis, (S), 3rd. Time 10:24:2.

220-yard dash—Abbott, (S), 1st; Davis, (M), 2nd; Morris, (S), 3rd. Time 23.3 sec.



Intramural Sports

Intramural Boxing

The entire student body met the introduction of boxing to the intramural contests with the greatest of approval. The ever blood-thirsty Miners turned out for these bouts in greater numbers than had ever before been anticipated. It was necessary to make special seating arrangements for the huge crowds which attended the final bouts.

The matches brought out some real material: clean, hard fighters of whom we can safely say will be more than capable of representing the school in intercollegiate meets should the opportunity ever present itself.

Coach Brown, Director of Intramural Athletics, should be most heartily congratulated upon introducing one of the most popular of intramural sports.

CHAMPIONS

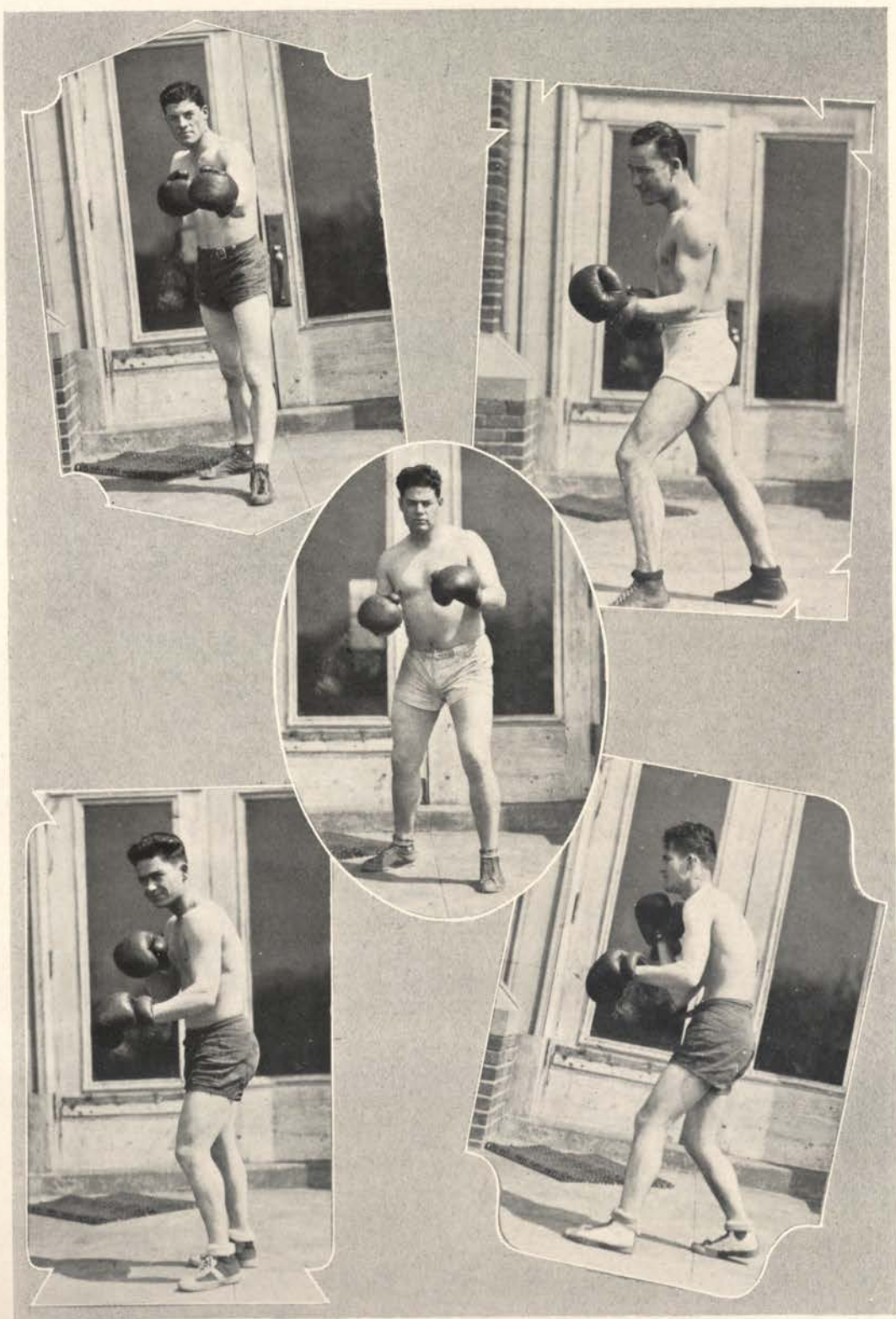
Light-weight—McKee, E. J., Sigma Nu, 126 lbs.

Welter-weight—Crippin, Pi Kappa Alpha.

Middle-weight—Stevens, J., Pi Kappa Alpha, 156 lbs.

Light-heavy—McDonald, Independent.

Heavy-weight—Tomlinson, E. M., Bonanza, 214 lbs.



Intramural Basketball

An unusual amount of interest was manifest in the intramural basketball games this season. A very noticeable improvement in the caliber of the teams was evident. Though the crowds were small, most of the contests were close and fast.

The Prospectors and the Lambda Chi fives held the upper hand throughout the season. The Prospectors broke first by losing their only game to the Sigma Nus, but they retaliated by defeating the Lambda Chi team in a later game. Both teams finished the regular schedule with only one loss chalked up against them. In the play-off for the championship, the Prospectors again meted out defeat to the hard fighting Lambda Chis.

The final standings:

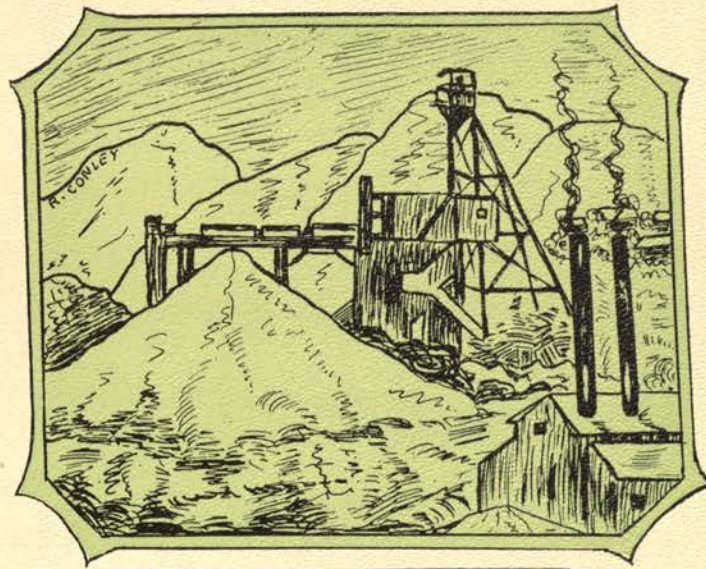
Fraternity	Won	Lost	Percent
Prospector	8	1	888
Lambda Chi Alpha.....	7	2	777
Pi Kappa Alpha.....	5	3	625
Bonanza	5	3	625
Mercier	4	4	500
Sigma Nu	4	4	500
Kappa Sigma	2	6	285
Triangle	1	7	143
Kappa Alpha	0	8	000

1930 Handball Tournament

At the time of going to press the handball tournaments for 1930 were nearing a close. Much interest was manifest in this indoor sport this season with nearly eighty entrants in the tournament. The first rounds were run off in rapid succession and the games soon narrowed down to a few of the more successful players.

Hassler ousted Offutt from the race in the semi-finals of the singles and will have to meet the winner of the Schofield-Tiefenbrun match for championship honors. Schultz, champion of last year's matches, who was eliminated from the race early in the tournament, failed to put up the expected fight to retain his title.

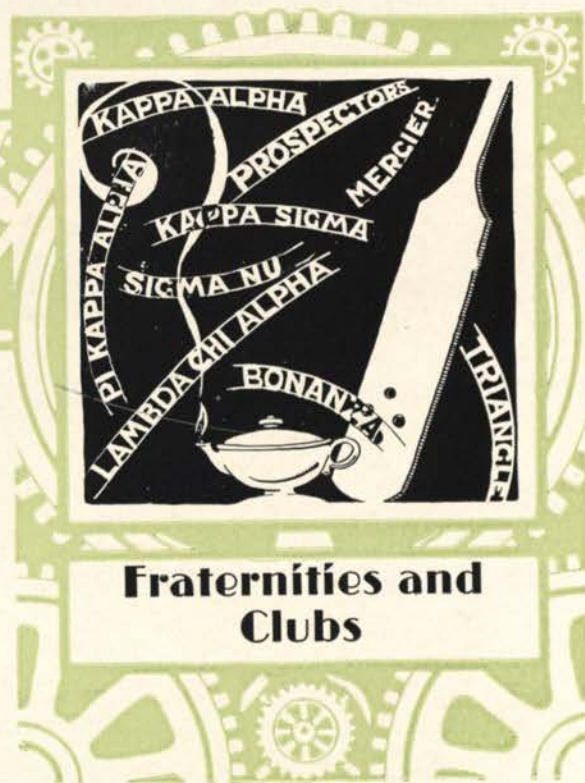
Pertici and Tiefenbrun, double champions last year, had little trouble in winning their bracket all the way through to the finals, but they will have to defeat Hassler and Schofield to retain their honors.



Copper

Copper has been a widely used metal since man first learned to fashion tools and ornaments. Today it is one of the most useful and important metals of civilization. Throughout the world the mining engineer is actively engaged in mining the indispensable copper.

Organizations



**Fraternities and
Clubs**

Sigma Nu



Gamma Xi of Sigma Nu
Installed January 1, 1903

Sigma Nu originated from the Legion of Honor, a secret society organized in 1868 at Virginia Military Institute, Lexington, Virginia. The Legion of Honor was an association of students drawn together around James F. Hopkins, the leader in a movement which opposed the overbearing control of another secret society. The Greek-letter designation and other characteristics of college fraternities were adopted January 1, 1869, regarded as the date of founding of Sigma Nu. Associated with Hopkins as founders were Greenfield Quarles and James M. Riley.

OFFICERS

G. F. HEATH, *Eminent Commander*
A. HARRISON, *Lieutenant Commander*
J. N. CONLEY, *Treasurer*
R. C. GRAHAM, *Recorder*

ACTIVE MEMBERS

W. Brewer
W. R. Broaddus
H. J. Brickner
L. L. Ellis
W. A. Gallemore

M. Hassler
C. C. Juhre
R. E. McCormick
A. L. McRae
J. F. Orr

J. L. Rowan
W. B. Schofield
J. T. Sturm
S. E. Taylor
C. W. McCaw

PLEDGES

J. R. Buchanan
E. H. Frauenfelder
R. S. Green

R. L. McCreight
E. J. McKee
J. H. McKinley
E. E. Schofield

J. T. M. Smith
T. B. Wyers
L. N. Wylder

House Mother—Miss Louise Studley





Kappa Alpha



Beta Alpha of Kappa Alpha
Installed April 27, 1903

Kappa Alpha was founded at Washington College, now Washington and Lee University, Lexington, Virginia, December 21, 1865, by James Ward Wood, Rev. William Nelson Scott, Stanhope McC. Scott, and William A. Walsh. The motto, ritual, and plan of organization are due chiefly to the labors of S. Z. Ammen, a second session member, so that he is considered the founder of the present Kappa Alpha Order.

OFFICERS

M. F. THOMAS, *President*
H. R. WALLACE, *Vice-President*
G. L. TRABAND, *Secretary*

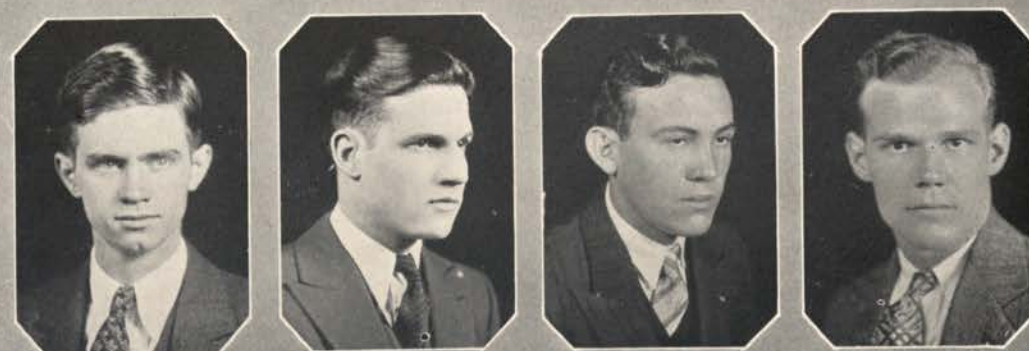
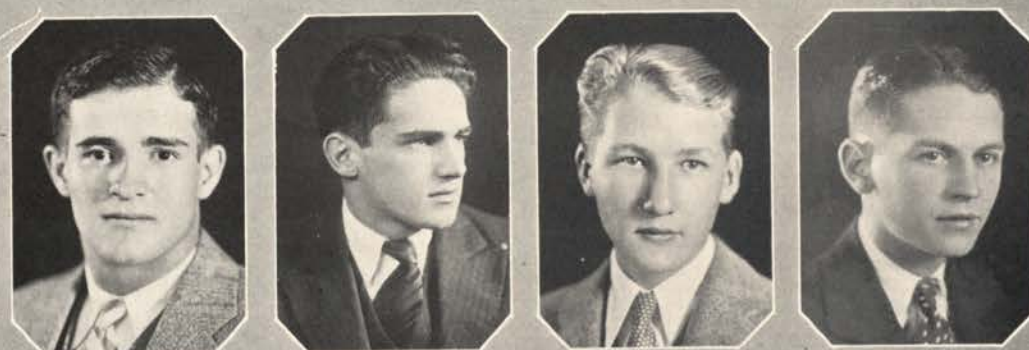
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A. W. Happy	G. A. Page	C. S. White
H. G. Hedges	R. Rydstrom	L. A. Wilson
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W. E. Kountz	R. L. Larkin	K. J. Stedelin





Kappa Sigma



Beta Chi of Kappa Sigma
Installed November 5, 1903

Kappa Sigma was founded at the University of Virginia, December 10, 1869, by William Grigsby McCormick, George Miles Arnold, Edmund Law Rogers, Jr., Frank Courtney Nicodemus and John Covert Boyd. The founders were not denied opportunity to become associated with some of the dozen fraternities of the time at the University of Virginia, but three of them, McCormick, Rogers, and Nicodemus, had been close friends as young men in Baltimore. They wanted to be together and under the leadership of McCormick decided to found an organization of their own. The relations of these three and Arnold and Boyd were so close, they have always been known in the literature and tradition of the fraternity as the "five friends and brothers."

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E. O. CRAWFORD, *Grand Scribe*

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J. Hollis	R. F. Payne	L. G. Tennes
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W. L. Berry	R. B. Hanley	H. W. Roesch
W. H. Brown	G. Heligman	W. R. Shew
H. C. Buchanan	J. Kenward	H. W. Short





Pi Kappa Alpha



Alpha Kappa of Pi Kappa Alpha
Installed December 2, 1905

Pi Kappa Alpha was founded at the University of Virginia on March 1, 1868, by Frederick Southgate Taylor, Julian Edward Wood, Littleton Walter Tazewell, Robertson Howard and James Benjamin Selater. They had long been intimate friends, some having attended Virginia Military Institute together and all having served in the Confederate Army. In fact, tradition says that the actual conception of the fraternity took place at Virginia Military Institute shortly after the battle of New Market, in which the cadets of that institution took such a prominent part.

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C. H. Harrington
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R. S. Kauffman
W. T. Kay
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W. H. Makin

J. J. Offutt
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R. W. Towse
C. E. Wilhite

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C. Crippen
L. W. Frohock
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C. Stewart
G. P. Throgmorton
G. M. Warren
E. R. White





Lambda Chi Alpha



Alpha Delta of Lambda Chi Alpha
Installed April 17, 1917

Lambda Chi Alpha was founded at Boston University, growing out of the Cosmopolitan Law Club, which had been organized in 1905. What is regarded as the first meeting of the fraternity was held November 2, 1909, and this has been accepted as its date of founding. The meeting was called to consider the reorganization of the club into a Greek-letter society. When the club rejected the Greek-letter proposition, three conferees who had been members of the same high school fraternity immediately started to lay the foundation of the new fraternity.

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A. J. REID, *High Beta*
R. W. McCLUSKY, *High Gamma*
R. A. BERTRAM, *High Tau*

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T. J. Dover
B. W. Ford
E. J. Gregory

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R. Monroe
M. C. Murray

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L. E. Reeves
W. T. Sharp
H. O. Scheer
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C. Cook
R. W. Cowden
C. G. Fulton
A. M. Ludas

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J. S. Grosshart
R. Lundias
S. M. Manuel

S. Moore
H. Olinger
G. Paul
J. Warren
W. L. Woelfer





Triangle



Missouri Mines of Triangle
Installed December 10, 1927

Triangle is a national fraternity of engineers founded April 15, 1907, at the University of Illinois. Since that time the fraternity has expanded to fourteen chapters located at the foremost universities and engineering schools in the country.

The local chapter was organized in 1902 as the Grubstakers Club,—the first fraternity of any kind at M. S. M. In 1927 the Grubstakers' petition to Triangle was accepted, and the Missouri Mines Chapter was installed on December 10, 1927.

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B. L. Ulrey
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C. P. Ferbrache

I. H. Howes
R. V. Prevallet

H. E. Thilienius
F. F. Williams





Bonanza Club



Founded November 14, 1916

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 H. R. Osterwald

F. M. Thoroughman
 E. M. Tomlinson
 W. Ware

PLEDGES

R. A. Parker
 V. Rutzke

R. Taylor
 C. G. Thornton

H. Vitt





Prospector Club



Founded October 1, 1913

In the fall of 1913, a group of sixteen upper-classmen at the Missouri School of Mines and Metallurgy, not affiliated with any of the local social fraternities, but realizing the desirability of such affiliation, organized and founded the Prospector Club. The specific purpose of the organization, as stated in the original Constitution, was "To foster good-fellowship among its members, and to frankly strive to promote the interests of the members and of the School of Mines in all activities, in school and after school.

In 1922, the Prospector Club became an incorporated fraternity under the laws of Missouri and has existed as such since then.

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H. C. HARKES, *Vice-President*
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O. K. Lay
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F. Malik

R. Kelly
K. R. Neal
E. G. Walters
H. Wilson

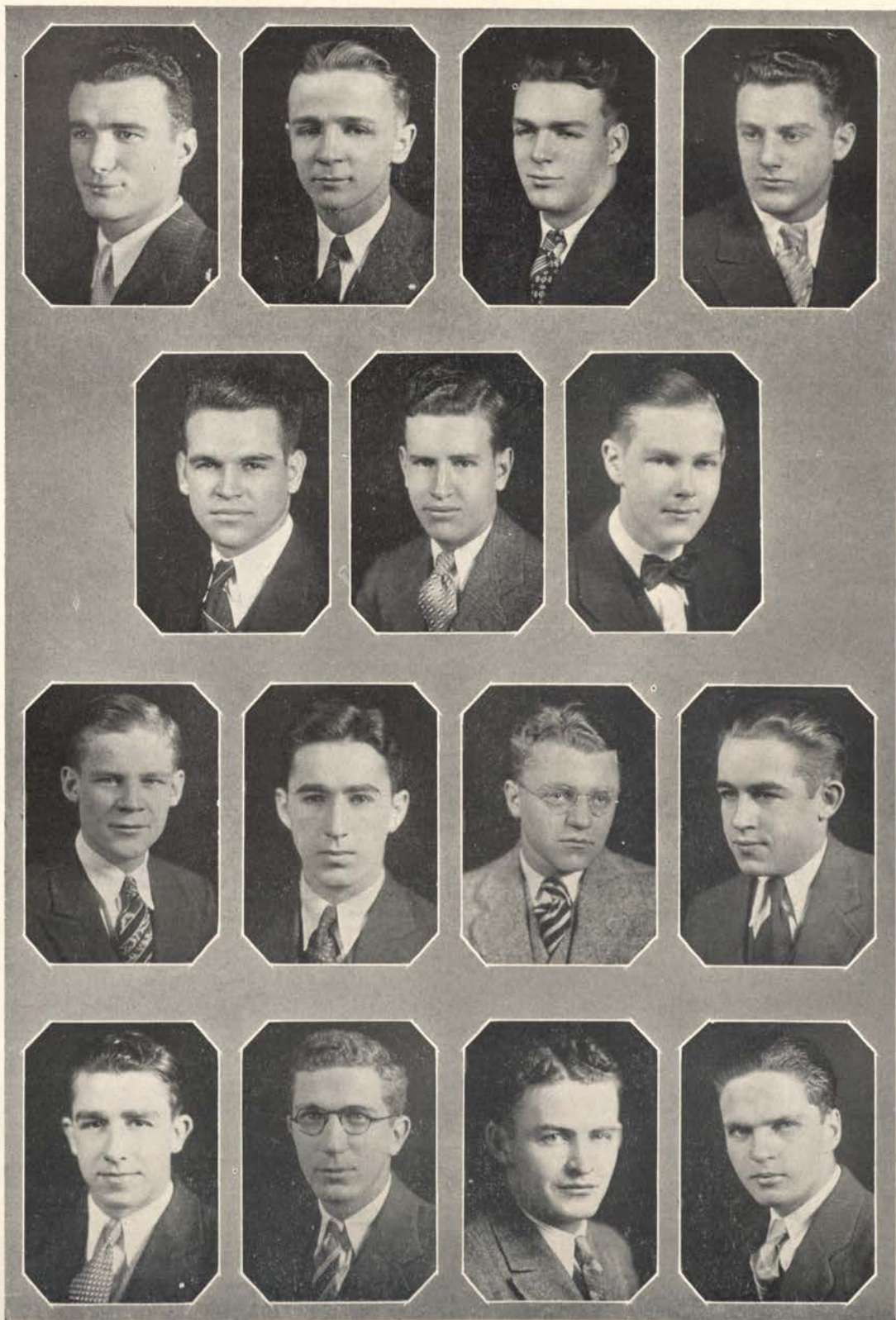
PLEDGES

H. Beardsley
C. H. Fisher
G. Grayson

A. J. Jones
E. Lindblad
H. Nicholson
C. Rodd

J. R. Skiver
H. Tittle
F. Wilson





Mercier Club



Founded 1925

Originally the Mercier Club was an organization of Catholic students, holding only occasional social meetings. The club as it exists today was founded during the fall of 1925 by J. E. Weber, Roy Gunther, Paul Halasey, Bernard Costello, and Bennett Thompson.

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 J. E. Frewer
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R. J. Haffner
 J. Huebner
 G. L. Leisher
 S. W. Moran

A. L. Pertici
 J. A. Pollak
 V. F. Stein

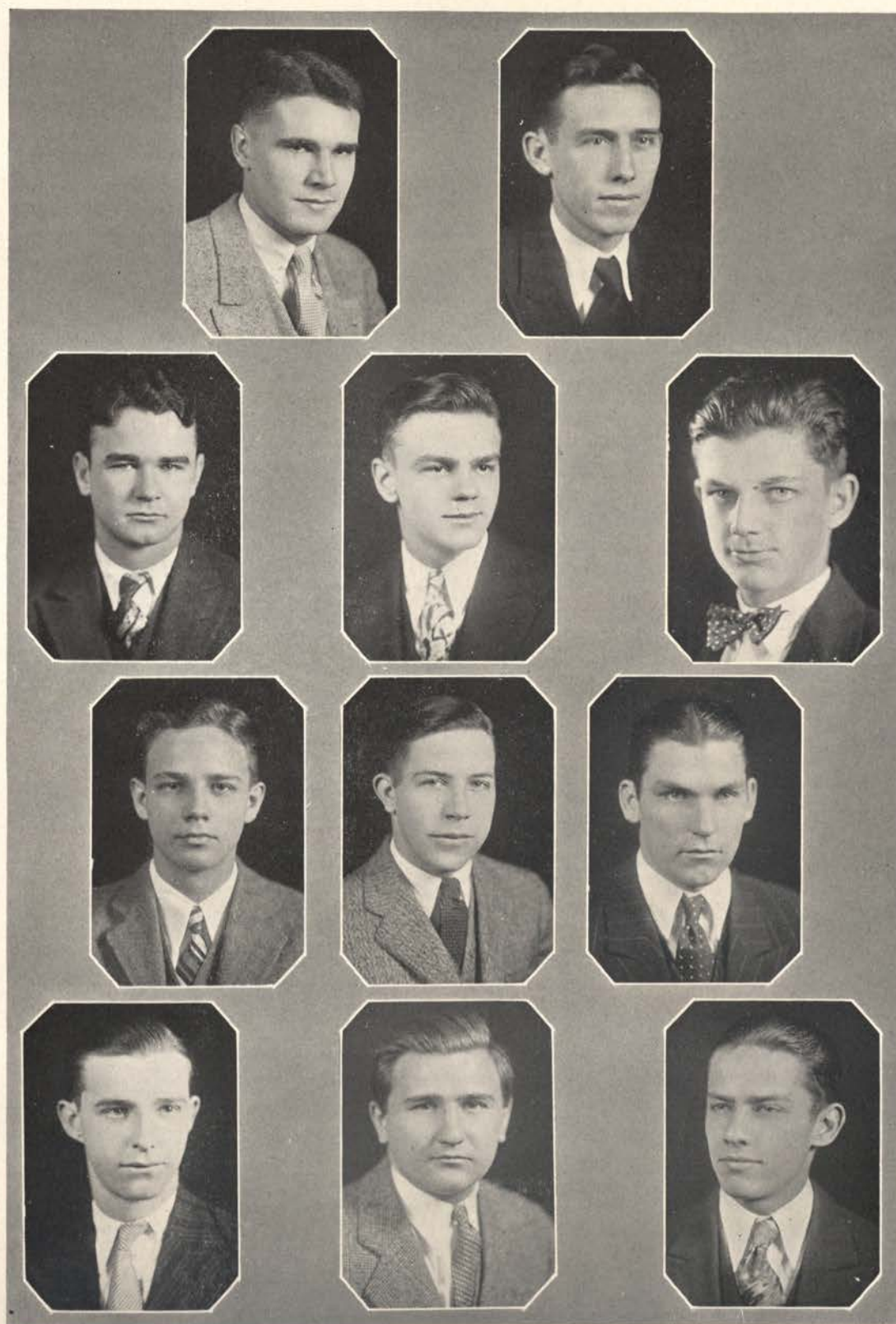
PLEDGES

F. Click
 B. C. Goedde
 B. Gross

A. Hesse
 C. H. Lambur
 C. W. Lamers

F. Louney
 F. Nazic

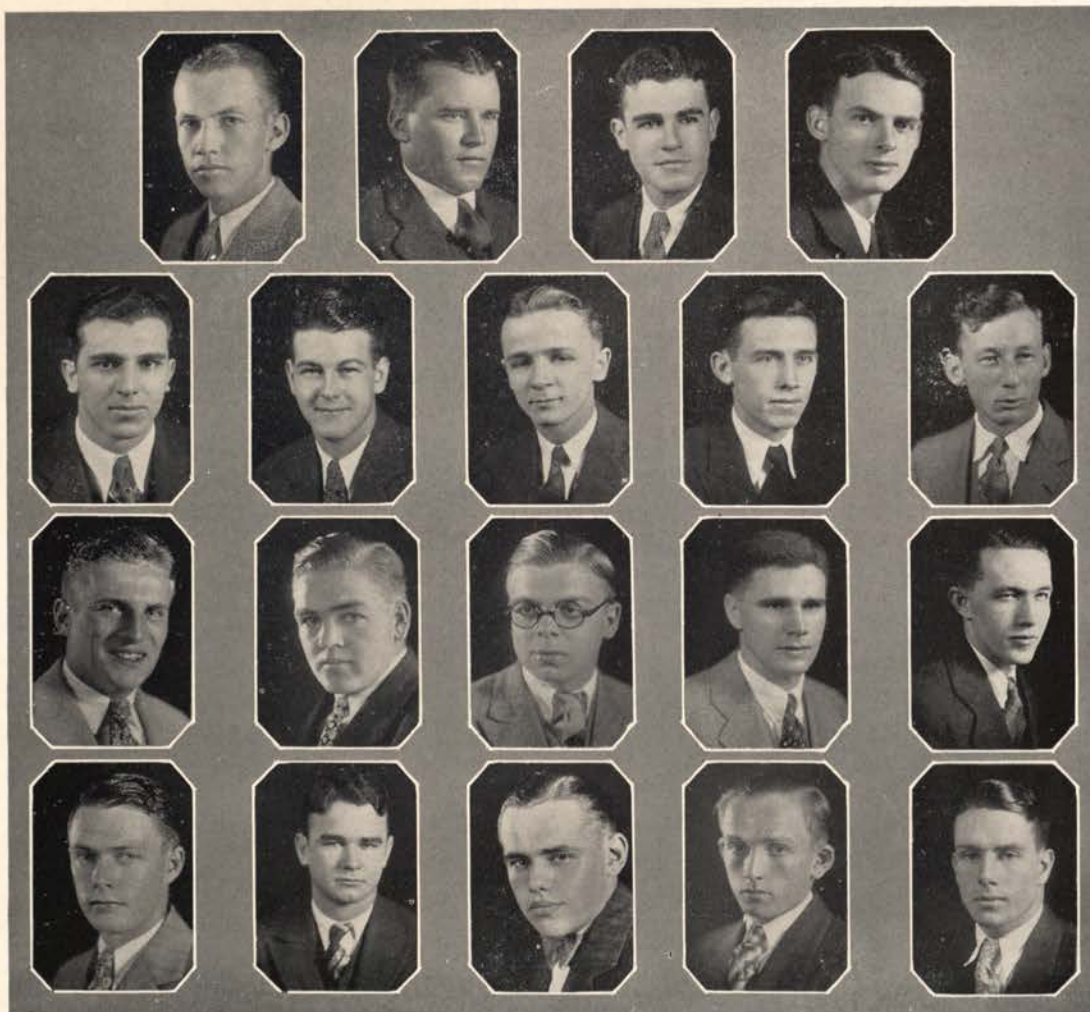






**Honorary and
Professional**

Theta Tau



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H. A. Buehler

Tau Beta Pi



Tau Beta Pi is an honorary engineering society founded at Lehigh University in June, 1885, under the leadership of Professor E. H. Williams, Jr. Its purpose is to confer distinction upon those students who have maintained a high grade of scholarship and to foster a spirit of liberal culture in the engineering students of the institutions in which its chapters are located.

The Missouri Beta, Missouri School of Mines Chapter, was installed in 1906.

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W. R. Powell

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J. C. Miles

G. L. Traband
W. J. Ware

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 C. F. Page—Prospector
 M. F. Murphy—Mercier

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American Institute of Electrical Engineers



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 G. L. Leisher
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 H. E. Perry
 J. A. Pollak
 Ray Runder
 H. Tittle
 F. G. Wilson
 W. O. Woods
 Prof. Frame
 Prof. Lovett
 Prof. Ranes



American Society of Civil Engineers

The Missouri School of Mines Chapter was organized in 1924 by C. W. Sitzler. The purpose of the student chapter is to further the study of civil engineering in this school.

The organization has a one-hundred percent enrollment of all Sophomore, Junior, and Senior C. E. students. One of the interesting and beneficial phases of the society is the lectures and reports on engineering conditions and problems given by prominent engineers and Senior members of the C. E. Seminar course at the monthly meetings.

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 L. R. Lacy
 J. Delaney
 H. J. Bruegging
 R. C. Graham
 J. N. Conley



Ira Remsen Society



The Ira Remsen Society is an organization of chemical engineers and others interested in chemistry. The object of the society is to stimulate an interest in chemical engineering and to hold technical and social meetings for presenting and discussing current chemical engineering problems and progress in chemistry. Occasionally men of prominence in science and industry are invited to address the society.

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J. Yarber
M. Young

Phi Kappa Phi



Phi Kappa Phi was founded at the University of Maine in 1897, principally by the efforts of Dr. A. W. Harris, then president of the university. Conceiving the idea of expanding this society into a national organization, he consulted with several college presidents, including President Atherton of Pennsylvania State College and President Dabney of the University of Tennessee. These three took immediate steps toward the formation of chapters in their own institutions. These three institutions are represented on the seal of the society by three stars.

Phi Kappa Phi is an honor society composed of professors and graduate and undergraduate students elected from all departments of the university or college in which a chapter is located. Its primary object is to emphasize scholarship in the thought of college students, to hold fast to the original purpose for which it was founded, and to stimulate mental achievements by the prize of membership.

The Missouri School of Mines chapter was installed in 1920.

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PROFESSOR F. G. FARNHAM, *Sec'y-Treasurer*
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C. V. Dake	R. O. Jackson	L. E. Woodman

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A weekly paper published by the students in the interests of the Alumni, Students, and Faculty of the Missouri School of Mines and Metallurgy.





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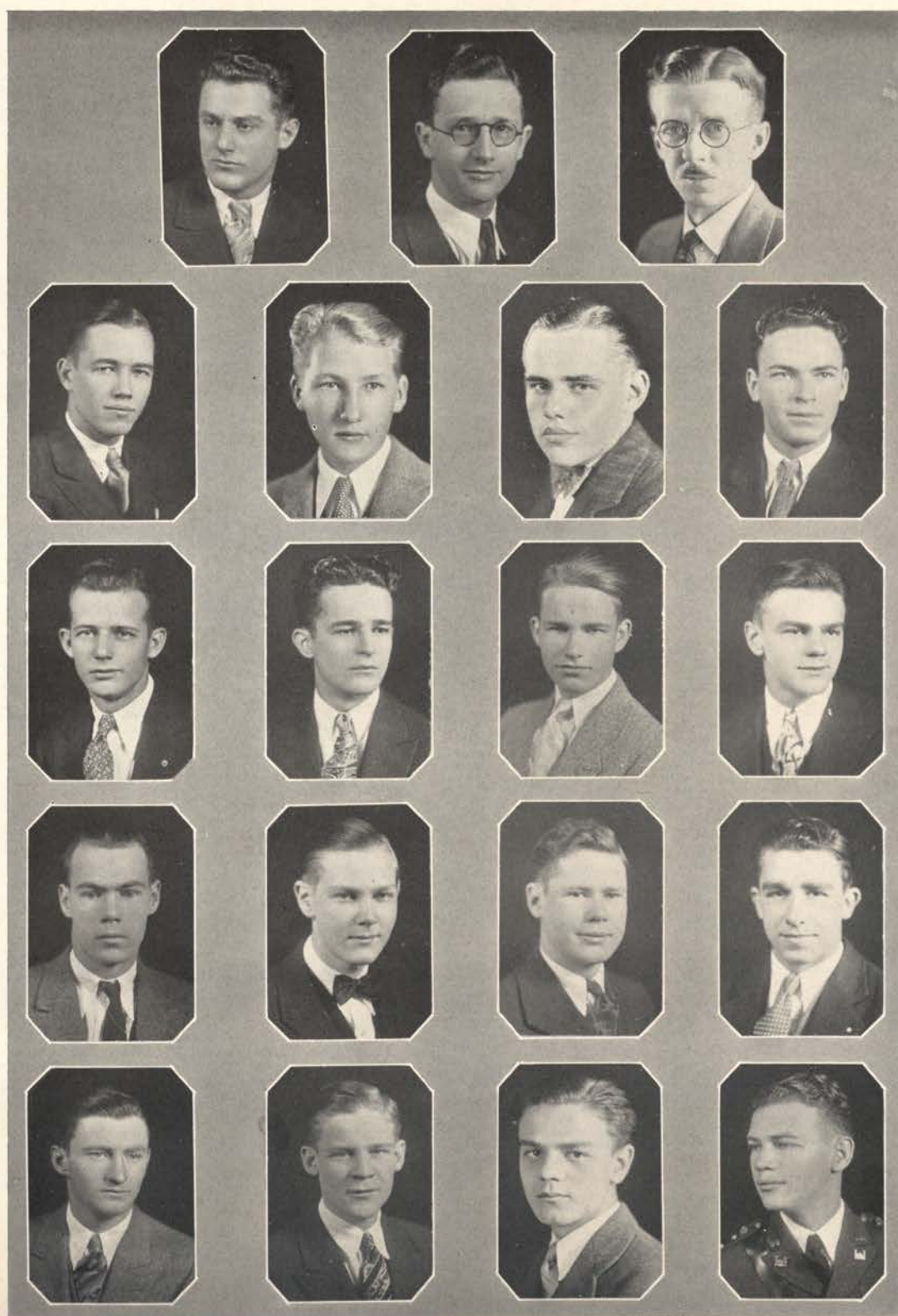
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C. Rodd
J. T. M. Smith
H. F. Thompson
L. N. Wylder



R. O. T. C. Band



This has been a "red-letter" year in the history of the band. At all football games, parades, and other important events this loyal organization furnished lively band music. When the Miner football team ventured far from Rolla in its gridiron conquests, the band was always along to cheer the team with its music. The concert presented by the band was a big success, and showed the school and town that it was an organization of great value to both the school and community.

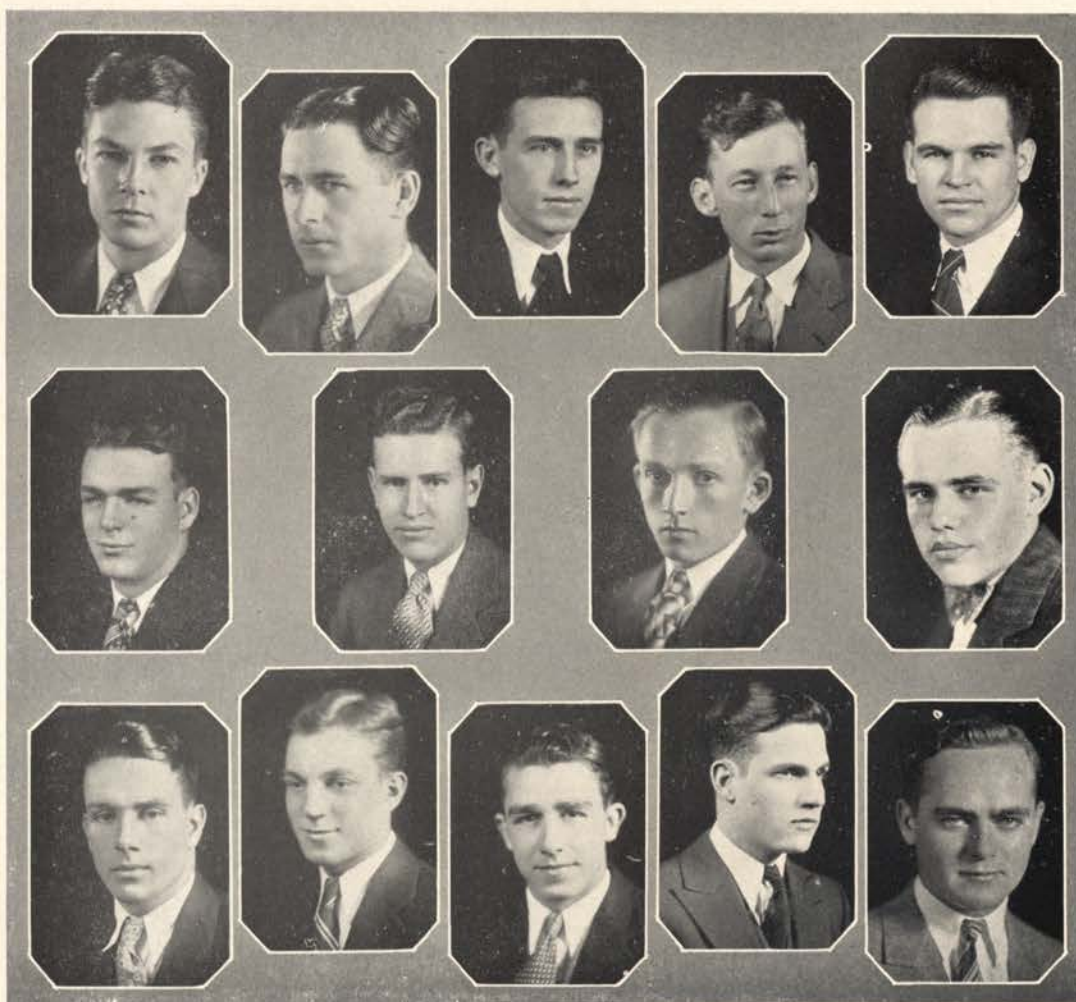
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W. B. Beckwith
W. W. Coghill
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W. M. Gilmore
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A. W. Kassay
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G. K. Koch
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W. R. Mays

E. Meeka
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Quo Vadis



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Satyrs



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C. K. Harrington	A. J. Reid	F. J. Schmitt
A. Harrison	W. J. Sabo	E. O. Crawford
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A. P. Heiser	W. T. Sharp	F. M. Thoroughman
J. R. Jarboe	A. C. Shearer	B. L. Ulrey
C. C. Juhre	A. J. Tiefenbrun	A. J. Williams
R. A. Kelly	W. R. Towse	W. A. Gallemore
H. F. Kirkpatrick	R. Z. Williams	

M. S. M. Players

"A FULL HOUSE" Three Acts

By Fred Jackson

Thursday, December 5, 1929, Parker Hall

Presented by the M. S. M. Players

CAST

Parks	J. T. M. Smith	George Howell	B. L. Ballard
Susie	Leola Millar	Sergeant Dougherty	H. C. Harkes
Ottily Howell	Elizabeth Long	Officer Monney	Thuber Royer
Miss Winnecker	Marguerite Charles	Mrs. Fleming	Clara Ralston
Daphne Charters	Emily McCaw	Vera Vernon	Dorothy Swain
Nicolas King	C. E. Wilhite	Mrs. Pembroke	Lucy Kiesler
Ned Pembroke, Jr.	Joe Jarboe		

The first production of the year by the Players was most enthusiastically received by the student body. It was acclaimed by many to be the best ever seen at M. S. M.

George Howell, bride-groom of one day, leaves his wife to go on a business trip. The purpose of said trip is to recover his client's love-letters from one Vera Vernon, a designing chorus-girl. The client, Ned, has fallen in love with Daphne, sister of Howell's bride. The venture is a success and everything would have been great but for a train wreck.

Howell had told his wife, Ottily, that he was going to Cleveland, but instead he went to Boston. While returning, the train had a smash-up and in the confusion Howell gets the grip of Nicholas King, which contains a pearl necklace stolen from Mrs. Pembroke, Ned's mother. When he comes home Ottily finds the pearls before Howell and, though greatly in love with him, she suspects him of being a thief and tries to reform him. He is innocent of any wrong and refuses to be reformed. Enter Mr. King in search of his necklace.

He approaches Susie, the maid, and telling her that he is a detective, gets the promise of her help in recovering the necklace. He has taken Howell's grip and found Ned's letter to Vera in it. Bargaining with Howell, he gives him the envelopes for the grip and later discovers his error. Meanwhile, Ned has been clamoring for his letters, Vera clamoring for them, or else—, Ottily reforming Howell, and Daphne falling for Ned.

Of course Mrs. Pembroke appears after receiving a 'phone call from Ottily regarding the whereabouts of her pearls, and gets them from King who got them from Susie who got them from Ottily who got them from Howell who got them from King who got them from Mrs. Pembroke. King gets the reward and splits it with Susie and drops his detective badge on the floor. It reads, "Official Dog-catcher."

St. Pat's Play

"On the Hiring Line," in three acts

By Harvey O'Higgins and Harriet Ford

Wednesday evening, March 12, and Saturday afternoon, March 14, Parker Hall

CAST

Sherman Fessenden	C. E. Wilhite	Steve Mack	Rex Pinkley
Rosalind	Dorothy Denison	Ronald Oliver	J. T. M. Smith
Dorothy	Blanche Bradford	Ritchie	Thuber Royer
William Capron	J. J. Offut	Mrs. Ritchie	Phillis Hackman
Pansy	Lillian Gibson		

The yearly frolic dedicated to St. Patrick did not want laughs and good times thanks to the efforts of the Players.

The scene is laid in New Jersey, 1919, in the country home of Mr. Sherman Fessenden, business-man extraordinary and one-time ardent lover. His second wife is an actress who, though susceptible to her husband's love making is rather indifferent to his business ability; furthermore she hates the country.

The trouble begins with the "servant problem" just following the close of the war. The difficulty being that no servant will stay at one place for more than a week. Steve, a chauffeur at Mrs. Capron's across the way, has stayed for a month and is suspected of being a detective. Whereupon Fessenden receives a brain-wave and boldly announces to his wife, Rosalind, that he, mighty man that he is, can solve the servant problem. Rosalind languidly consents and forthwith two detectives appear upon the scene disguised as butler and cook. But Mr. Ronald Oliver from the wild, wild West, gifted (or cursed) with an English accent, bursts in upon this peaceful New Jersey homestead and begins to cause things to happen.

Mr. Oliver was acquainted with Rosalind when she was on the stage, but the poor soul is in a hole, so to speak, and has no job nor any prospects of getting one. He innocently approaches Rosalind with the idea of working about the place to regain his health. Incidentally she reads him a love-letter written to her by Fessenden which is so insanely awful that Oliver makes a copy of it to use in a vaudeville sketch he is working on.

The detectives find the copy in his handwriting and show it to Fessenden who accuses Rosalind of an affair with Oliver. Mrs. Capron's deserting husband returns under Fessenden's influence to have another bout with his wife. Steve, very much in love with Dorothy, Fessenden's daughter by his first wife, gets mixed into the trouble by the inquisitive butler and generally things go from rotten to worse.

As usual, everybody gets the low-down on everybody else and everybody is happy when the third round ends.



Military

Military



In accordance with the National Defense Act, there has been established at Missouri School of Mines and Metallurgy a unit of the Reserve Officers' Training Corps. Basic military training for two years is required of all students who intend to graduate. Advanced military may be taken by students who have completed the basic course or its equivalent, and have been recommended by the military office. Students completing this work will be commissioned in the Officers' Reserve Corps.

The highest honor that can be received in the advanced course is to be appointed Cadet Major of the Battalion. Through the Director and with the consent of the Board of Curators, the student receiving this appointment is made exempt from all fees and deposits required during the Senior year. This scholarship was won this year by Willard Farrar.

The M. S. M. unit is organized into a battalion of four companies with a battalion staff and company officers. Officers and non-commissioned officers are appointed according to rank from the several classes so that a student receives a higher rank each year as he advances in training.



CAPTAIN KENNETH M. MOORE
SERGEANT WILLIAM B. BERTRAM

LIEUTENANT W. R. WINSLOW



CADET OFFICERS

Cadet Major

Willard Farrar

Cadet Captain and Adjutant

George A. Page

Cadet Captains

Roy M. Lacy

Edgar C. Long

Thomas J. Dover

Lloyd R. Lacy

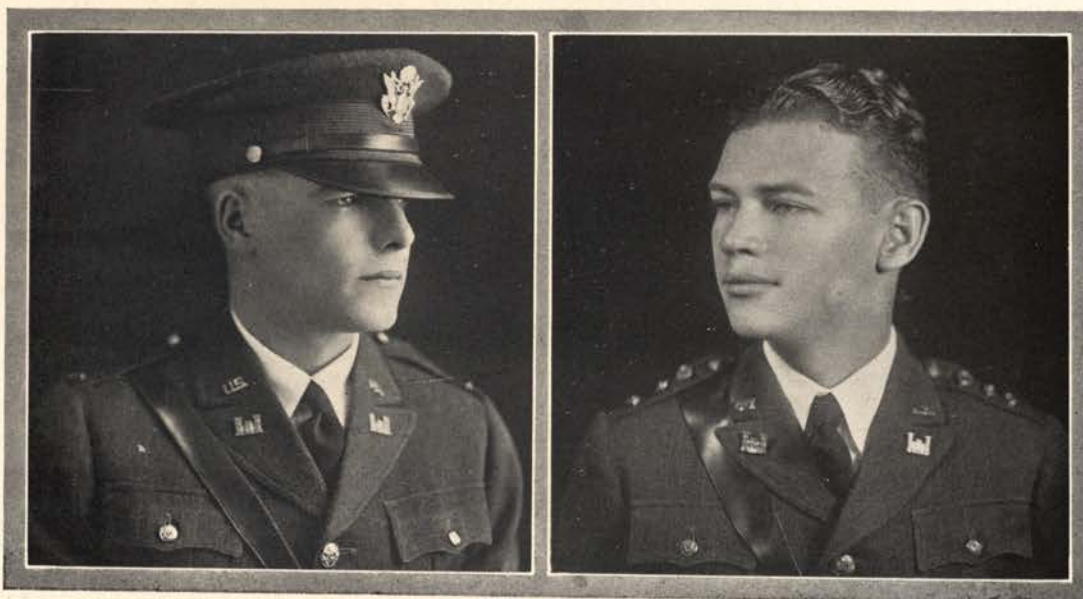
Cadet 1st Lieutenants

Robert L. Campbell
Jonathan C. DeFoe
Charles W. McCaw

Roy S. Martin
Percy E. Moore
Charles E. Ross

William J. Sabo
Eugene H. Woodman





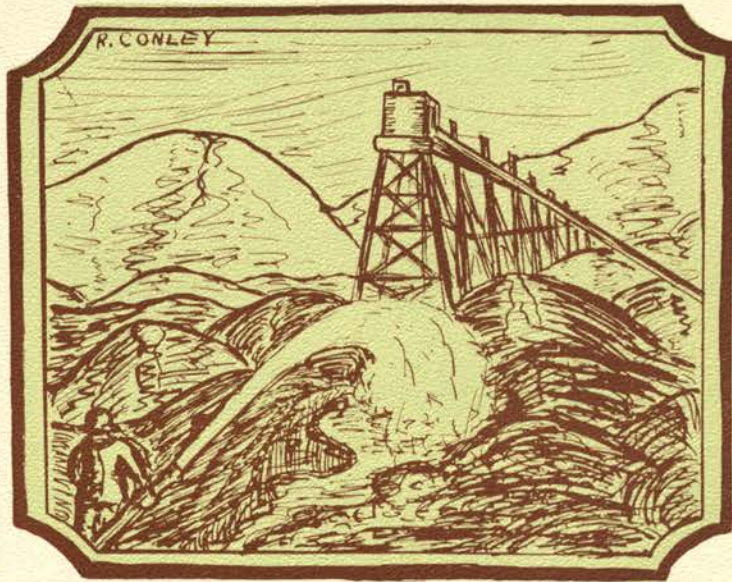
WILLARD FARRAR

GEORGE A. PAGE

The Cadet Major is appointed from the students of the Second Year of the Advanced Course and is picked for scholastic attainments, his military bearing, his interest in the military profession and his general fitness for the position. The Board of Curators has designated a "Military Scholarship" for the Cadet Major, and it relieves him from all fees and deposits excepting the students activity fee and the lecture course fee.

The Cadet Adjutant is appointed from the same year as the Cadet Major and holds the rank of Captain. He is chosen for his military bearing, smartness of appearance and scholastic attainments.

Both Major Farrar and Captain Page have fulfilled the above requirements during the four years of their membership in the Reserve Officers Training Corps to a marked degree.



Gold

Gold is symbolical of luxury, wealth, and power. The search for it is universal, because it is inherently beautiful and possesses great monetary value. In mining the earth's supply of gold the mining engineer renders a distinctly valuable service to civilization.

Features



St. Pat's



St. Patrick 1930

A. J. Tiefenbrun



ST. PATRICK'S QUEEN
Miss Madge Lennox
1930



QUEEN'S ATTENDANT
Miss Emily McCaw
1930

St. Pat's 1930

AMONG the many famous sagas and age-old traditions that have been known, cherished, and handed down through countless generations, none is more widely known or more zealously guarded and cherished among engineers than those concerning St. Patrick, beloved patron Saint of the profession. That the grand old man of engineering was indeed well entitled to the fame and fortune which became his lot, is well attested by the history of his prodigious deeds, foremost among which was the banishment of all evils in the form of snakes from his own Emerald Isle, thereby converting it to a Christian land of good cheer. "Hurroo!" sez he, "Oi've had enough av ye varmint under foot. Be off wid yez, now, lest I tie yez head to tail f'r me ladder to the pearly gates." Forthwith, the snakes and all forms of evil disappeared forever from Ireland.

Since St. Pat holds such unchallenged prestige among engineers, and because his loyal sons at M. S. M. are so extremely fortunate as to possess his affection, we are honored each year on March 17th by his visit to Rolla. As infants enjoy their Christmas-tide, so do Miners revel during the three days set apart for the celebration of St. Pat's in Rolla. Nor are we lonesome during this incomparable social event. The cheering influence of an army of charming feminine joy-seekers which invades the town each year brings a state of happiness and good cheer to the heart of each son of M. S. M. that is seldom equalled in a lifetime of festivities.

No more perfect or thrilling preface to the celebration of the arrival of St. Pat could have been arranged than the many wonderful house parties which took place at the various fraternities and clubs on the campus Thursday evening. A goodly portion of the powerful mixture of happy anticipation was turned loose on this night which was a continual round of dancing, and cordial greetings to long-lost friends. Joviality was the watchword as the guests of the various houses mingled in the enjoyment of the open-house policy maintained on this evening.

Friday morning saw the arrival of the venerable old bard at the new Rolla Union Station. Escorted by a bodyguard of inimitable Q. V. kids, St. Pat descended from his "private train" and took his place at the head of a parade which then proceeded through the gay sunny streets of the village toward Parker Hall. All nature seemed to smile on the happy throngs which followed His Highness, and the song of an early robin was heard in "double-check" approval of the earthly happiness that abounded that morning. Arriving at the auditorium in Parker Hall, St. Pat delivered a most worthy address to the assembled faculty, student body, guests, and townspeople. No ordinary brilliance of the mind could have produced so splendid an oration as St. Pat presented before the multitude. Welcome to guests, congratulatory regards, cheer, and even admonition

were integral parts of his speech: Immediately following came the knighting ceremony for each of his worthy senior sons. Each aspirant to the honor of knighthood in the order of St. Pat was presented with his skeepskin and royal emblem after having been embarrassed and reprimanded for past deeds. Right reverently did each knight kiss the Blarney Stone at the command of the fatherly Saint.

Friday afternoon saw the guests and members of all house parties again assembled in Parker Hall to witness the presentation of the annual St. Pat's Play by the M. S. M. Players. The three-act comedy farce, "On the Hiring Line," was a characteristic success, and it added much to the enjoyment of that day among the three in which no dull moment is ever allowed to creep.

That moment for which many loyal engineers had lived and hoped for a long year occurred that evening at 10 o'clock when, from the beautifully decorated gym, the perfectly blended strains of music by a wonderful dance orchestra were heard upon the soft breezes which carried promise of Spring and of unrivaled happiness. Never, in the history of all social functions of M. S. M. had a more colorful, happy crowd of joy-seekers assembled under the emblem of the Shamrock than at this crowning feature of the whole St. Pat's celebration—the Masque Ball, so far famed for the happy abandon, youthful glamour and beauty, and the sheer joy which attend its occurrence. On every side of the onlooker were happy couples in state of mind varying from mere joy to utter bliss. Happiness and joyful anticipation reigned supreme in that palace of love and beauty. Midnight, the magic hour, struck, and close upon its echo came the blare of trumpets, which caused an expectant hush to fall over the multitude. The heralds announced the approach of St. Pat, and as he entered in all his glory and dignity, issuing imperious commands to Kow Tow, he approached the throne while the orchestra struck up his favorite ballad, "The Wearing of the Green." All eyes were then turned to the entrance whence now came an exceedingly lovely procession of the former queens of His Majesty, Miss Dorothy Kiesler, Mrs. J. H. Brickner, Miss Lucy Kiesler, and Miss Elizabeth Long, formed a procession of exceeding grace and beauty. Absolute silence fell after the murmurs of admiration of the lovely ladies of the royal court. Then, preceded by four adorable flower girls and a wee crown bearer, and amidst a great wave of applause, came Miss Madge Lennox, sixteenth queen of St. Patrick. So exquisitely gowned was she, and so great was the glory of her radiant loveliness that the audience was captivated, and St. Patrick himself stepped forth to welcome her to the throne where, during sustained applause the coronation ceremony took place. Following a brief stay upon the throne came a grand march led by Col. and Mrs. Charles L. Woods, in which the entire gathering joined. This marked the end of the most important and spectacular event of a wonderful night of fun. Then "on with the dance," and hundreds of gay couples began a varied program of dances to such music as has seldom been heard in Jackling Gym. The full harmony and pep of the music so bountifully

produced by Herr Hencken's Orchestra added greatly to the striking effect of the riot of color in the brilliantly costumed dancers. No description could do justice to the attire of the merrymakers and the gorgeous decorations of the hall that night. Happy characters varying from fairyqueens and turkish maidens to gypsy girls, and from toreadors and romeos to infinity, danced merrily on in a palace, the brilliant decorations of which will remain unexcelled in memories of many. Four vari-colored spotlights playing upon a revolving crystal suspended from the ceiling caused myriad beams of light to frolic about among the happy multitude of dancers below. Not until a faint light on the eastern horizon gave promise of daybreak, did the enchanting rhythm of such numbers as the never-to-be-forgotten "Tiger Rag" fade to the smoother waning cadence of "Home Sweet Home." Then did the fading stars in the heavens look down upon the weary, happy couples reluctantly deserting the gym for the soothing arms of Morpheus.

Recuperation claimed the major portion of the next day's program. Many were the complaints of aching feet and stiff muscles, but as the afternoon wore on, all ailments were forgotten in the enjoyment of the various open-house dances on the campus. These speeding hours of happiness soon brought the guests to the formal dinner-dances at the fraternity and club houses. It is certain that each of these delightful affairs was a glorious success, for when the couples once more entered the gym to participate in the Formal Junior Prom they were in a state of happiness unequalled even by that of the previous night.

More beautiful than ever were the ladies on this occasion, and never were beautiful girls more thoroughly appreciated than by the proud Miners who escorted them with spirit and dignity that were akin to the very essence of gaiety and yet stood as a contrast which served in no small measure to enliven the interest and satisfy any desire for great variety that might have existed. Though the thought that this was the last night of the celebration caused many a poignant feeling of regret in those who were so wholeheartedly engaged in the enjoyment of the dance, it fostered more strongly the resolve to dance, sing, and love while so excellent an opportunity presented. Dan Cupid experienced a great evening. New friendships became firmly established and many were the cases of true love that advanced to an unquestioned status of bliss during the happy hours of dancing and especially pleasing features presented by both orchestra and guests. The Palace of Love and Beauty was again deserted and upon the soft breeze was borne the last echoes of unforgettable hilarity of the guests.

It is certain that in the memories of those who achieved unparalleled happiness here, St. Pat's 1930 will live forever. When another week-end so filled with jolly fun and the happy spirit of youth comes to M. S. M., it will again be St. Pat's.

WESLEY I. HARTNAGEL.





Military Ball



Military Ball

One of the most noteworthy social events of the year was the annual Military Dinner Dance. Needless to say, all of the advanced course military students were there, decked out in full regalia, and prepared for an evening of feasting, dancing, and subtle exchanges of wit. The affair rivaled St. Patrick's in its glory, and dates.

Major Farrar acted as chief toastmaster, and during the course of the banquet Captain Moore and Lieutenant Winslow were prevailed upon to speak in order to sooth that warlike Miner spirit. It was Captain Moore's last appearance at the annual ball and was thus his farewell address.

The huge success of the dinner and dance made it an outstanding affair in the minds of those who were lucky enough to belong to the "army," and will be long remembered by them.



Humor

SHHHH!

Don't let a word of this escape.

But—

By the use of a slipstick, a dictaphone, and the Bardsley Telescope, THE ROLLAMO, for the first time in the history of this school, is publishing chosen "minutes" from the records of each fraternity and club on the campus.

Sigma Nu

Gamma Xi of Sigma Nu

Rolla, Mo.

Minutes of Formal Meeting, December 16, 1935 A. D. (After Darkness)

"Arcy" Graham, Recorder.

Exalted Eminent Commander Heath being involved in a crustacean deal, in rather a large way, was unable to attend the meeting, so Lower Exalted Eminent Commander Harrison tossed out the opening football.

Brothers Schofield and Hassler proudly displayed a gold-mounted ballot box presented to them by the Junior Class.

Brothers Sturm and Orr matched pennies in a corner. Brother Sturm fainted when Brother Orr raked in the towering pile of two coins.

Brother McRae, sotto voce, feelingly described the flying field at Ft. Scott, Kansas, on a dark cold night. Brother McCormick audibly "birdied."

Brother Conley, dreaming of yachts and Cadillacs, absent-mindedly began to play an imaginary trombone—blowing smoke rings the meanwhile.

It being a dance night, Brother Juhre started for the junction of Highway 66 and Pine Street. Brother Graham gave a parting jeer, and put on a country boy green tie.

Brother Ellis woke up and vetoed. It was decided to adjourn until the next day's eleven o'clock geology class.

Kappa Alpha

Beta Alpha of Kappa Alpha

Raleigh, Mo.

Minutes of Meeting February 29, 1930 A. D. (All Damp)

Gustave Louis Traband, Secretary.

There being no particularly pressing business on hand, a coin was tossed to decide the nature of the meeting. The coin stood on edge, so an election was held. Brother Gerling adopts the coin, and is promptly socked with a brick hurled by Brother Herron. (It being a "soft mud" brick, Brother Gerling wasn't seriously injured.)

Brother Thomas, after the dust clears, is discovered to have been elected Numbers One, Two, and Three. He is then presented with a can of "3 in 1," and everybody gets oiled.

Brother Thomas hurriedly leaves, as his camelhair coat steps out for a drink.

Brother "Con" Traband, being more than fully lubricated, turns White. Rydstroms on his ukelele, and the pledges who have been sky-Larkin return as he Spiers Brother Wallace.

"Page the sheriff," the actives howl at the pledges.

"I Wilson," sez Macklin.

But the erring brother Hedges toward his parked Henry and escapes. He Willhite out in the hills.

Just then Brother Thomas' coat returns, prepared for another seven day spell of aridness. Brother Traband decides to call roll, and peering out of a bleary eye, says: "Is everybody Happy?" This precipitated the close of the meeting, which ended in a formal, courtly gang-fight and a race to the throne-room.

Kappa Sigma

Beta Chi of Kappa Sigma

Rolla, Mo.

Minutes of Weekly Meeting, January 32, 1300 B. C. (Before Corn)

With the aid of a pulmotor, Supreme Grand Master Heiser was successfully revived and the meeting came to order with the assembled elite quaffing tea and eating lady-fingers.

Brother Rucker was called to the door by a clothing salesman who offered the last gasp in modernistic civil engineering costumes.

Brother Long, returning from St. James intact, was met at the door by Brother Payne, who punched him affectionately on the jaw. (Subsequent exit of Brother Payne feet first.)

A recess was declared so that Brother Tennies, Grand High Nurse-Maid, might tuck Brother Crawford into his cradle, Brother Foster having already preceded him by ten minutes.

By a unanimous vote, Brother Sherrill was forbidden to wear a monocle.

The meeting closed as the chapter adjourned to the basement where Brother Long was brutally beating up every egg in the house.

Pi Kappa Alpha

Alpha Kappa of Pi Kappa Alpha

Rolla, Mo.

Minutes of Big Super-Secret Meeting March 12, 1492

Unknown Secretary.

The Bromo-Seltzer loving cup having been passed around, the meeting came to order.

Brother Towse was commanded to stop drooling and mumbling "supply and demand." Brother Stevens passed Brother Towse the financial sheet to soothe him.

After a heated discussion, it was decided to install inside plumbing in the new house being built on the Highway. Brother Willhite led the cheers with his "yo-yo."

An intermission was called so that Honorable President Maune could instruct the pledges in the art of slipping a strait-jacket on Brother Park, who had received only one "S" in Power Plants.

The meeting broke up hurriedly because three pledge pins had been discovered in the house, and it was time for the "Blue Bonnet" to arrive.

Lambda Chi Alpha

Alpha Delta of Lambda Chi Alpha

Minutes of Regular Monthly Meeting, November 31, 1931

High Alpha Williams, being unable to attend because the chapter, at its last meeting, had voted that every member and pledge in and around the house must wear shoes, cabled High Beta Reid to take the tickets.

Brother Macke, the chapter's pride on the baseball diamond, became a hot grounder for the house wiring system, and was put out at home. Very much so, and Brother Dover caught him.

As twelve of the assembled brethren were already soundly snoring, this being a business meeting, Brothers Gregory and Ford decided to stage a short playlet showing a poker game, followed by a boxing match. Brother Gregory claimed it to be a howling success.

Brothers Barton and Sharp fell into an argument over a "Transit"; Brother Barton claiming to be an authority on transits. Brother Sharp resumed his interrupted slumbers as Brother Barton drew out his hand-level and proceeded to find the true bearing of the case.

The meeting broke up as Brother "Stinky" Davis entered the room. Brother McCluskey was appointed by Brother Reid to light the sulphur candles and polish the Tau Beta Pi cup.

Triangle

Missouri Mines of Triangle.

Minutes of Ordinary Weekly Meeting (Exact date unknown)

The meeting began as presiding President Regenhardt paved the way for discussion.

With the coming of Brother Lacy's second cousin and Uncle Bill to school next fall, the chapter decided to apply for a new charter under the name of "Lacy Chapter of Triangle."

At this juncture, the ultra super-freshman, Pledge Miner, stumbled through the door, somewhat the worse for wear. It seems as though there was a case of mistaken identity between him and Coach Brown's sleuth-hound.

Brother Hartnagel proposed that the "Missouri Miner" be printed in the house. His reason being that it would save the chapter a long walk up to the Rolla Building for the weekly meetings of the board.

Brother Pickles turned green and was removed to the upper regions.

Brother Hoeman drove up in a new Ford and stopped without a scratch to himself or to the car. At this everybody passed out, so the meeting was called off.

Bonanza

Theta Kappa Nu of Bonanza

Rolla, Mo.

Petition Drafting Meeting, October 1-31, 1812

Having just joined the order of Pythias, Brother "Rumboat" Campbell was unable to stand, so assistant Head Man Bob Campbell opened the meeting by fining himself seven cents for taking a date to a Gym dance.

Brother Barnes fell out of the kitchen and announced that he had invented a soda-cracker with a muffler attached. Brother Barnes was given a rising vote of thanks with every right foot in the house.

An alarming situation arose when Followill drugged Tomlinson. Brother Tomlinson immediately became the center—of attraction.

The lights went out, so Brother Arnold clicked off a "sparkling 220." The sparkles from this kept the place illuminated.

Brother Osterwald started to whittle down a straw for his next day's class in stresses, so the meeting adjourned to the dining room where another petition to Theta Kappa Nu was drawn up and mailed.

Prospectors

Minutes of Meeting December 16, 1930

Kingfish Galbraith opened the meeting, then immediately left because he hadn't had his after-dinner two-mile warm-up run. Brother Harkes secured his baton, and the rest of the members fell into step behind him—all singing the old Swedish runaway-horse song, "Sweet Alice ban Bolt."

Pledge Rodd, coming in late, was greeted by every C. E. boisterously, "High Rodd!" Rodd waved back.

Someone knocked on the front door, and Brother Jones immediately disappeared. However, instead of another summons, it was just another football man who was farther away from the Frisco than he thought. Brother Jones' sigh of relief loosened the hinges on the ice-box door, so Baron Ted was dispatched to Page Pledge Tiddle, who was ordered to Brigham a Carpenter.

Brother Keller complained that someone had "come in last night and stolen all his Skiver," by crackie.

"I can't Neal," wailed Malick.

"O. K. Lay," chorused the laughing chapter, which was the last chapter, and they all trooped into the telephone booth where gingerale and doughnuts were served in large round receptacles.

Merciars

Minutes of Special Meeting September 31, 1929

President Jarboe, pride and joy of Bradford's Public Speaking class, opened the meeting in his best form. The chapter showed their appreciation of this by yawning.

When the chapter started up an impromptu bowling match on the alley next to the house, President Jarboe got busy with his needles and knit his brows.

The rest of the chapter came in from the Triangle House, and, as the pledges hadn't been properly boarded since day before yesterday, they were called down from upstairs. To this violent exercise, by Coach Grant's permission, counting as P. E. work, everybody fell to—until the pledges fell, too. Brother Tiefenbrun traded swats with Brother Gunther. Brother Scally traded swats with Brother Picco. Brother Stein went upstairs after his gun, and started hunting grade points.

The meeting adjourned to Frisco Pond, with each member carrying a fishing pole to the place of adjournment.

Employment Manager: I want you to find a new stenographer for my boss.
Employment Agent: What size lap, please?

—College Humor.

"So your son is learning the silk business, eh "
"Yes, but so far he's only gotten as far as stockings."

"So you're going through college by working your way? What do you do?"
"I'm a contractor."
"A contractor?"
"Yes, I contract debts."

—Temple Owl.



Random Interviews With the Fickle Faculty

PROFESSOR GEORGE R. DEAN

As I anchored my skiff to the "Doc" (I forget which one it was who happened to be there) in front of Mechanical Hall, Eric Robot stepped out of the door.

"Say," I whispered, "do you think that Prof. Dean could be interviewed this A.M.?"

"Have you-all got one of them there X-ray machines?" queried Eric, who was in every sense of the word an engineer. So I shot him and waded through the welter of gore into the Hall.

At the foot of the staircase I heard the piteous whining of an assorted collection of $\frac{dx}{dy} = \sin A$'s, and so on. They had been used by one of Mr. Dean's calculus classes, and thrown out of the door by that irate person. Next to them stood a small pony, who was champing impatiently on his bit (he gave his bit during the War, but somebody later gave it back to him) and waiting for his master to call him to use during a quiz.

Being quite interested in these queer sights, I stumbled over a match and fell all of the way upstairs. Picking myself up, which is quite a trick in itself, I crept cautiously down the hall to the sanctum of sanctums and peeked around the corner of the door. An eraser, whining in a high treble note, floated by my ear with the lazy pace of a rifle-bullet. Being prepared for such a reception, I donned my disguise; it being that of one of Einstein's Relatives.

Boldly stepping through the door I confronted Professor Dean, who, at the moment, was gnawing voraciously on a "Theory of Thermodynamics."

"Well, what do you want?" asked he in that suave tone usually reserved for his mathematics classes.

"My name is Bass, sir," I replied hopefully, well knowing the old gentleman's fondness for fishing.

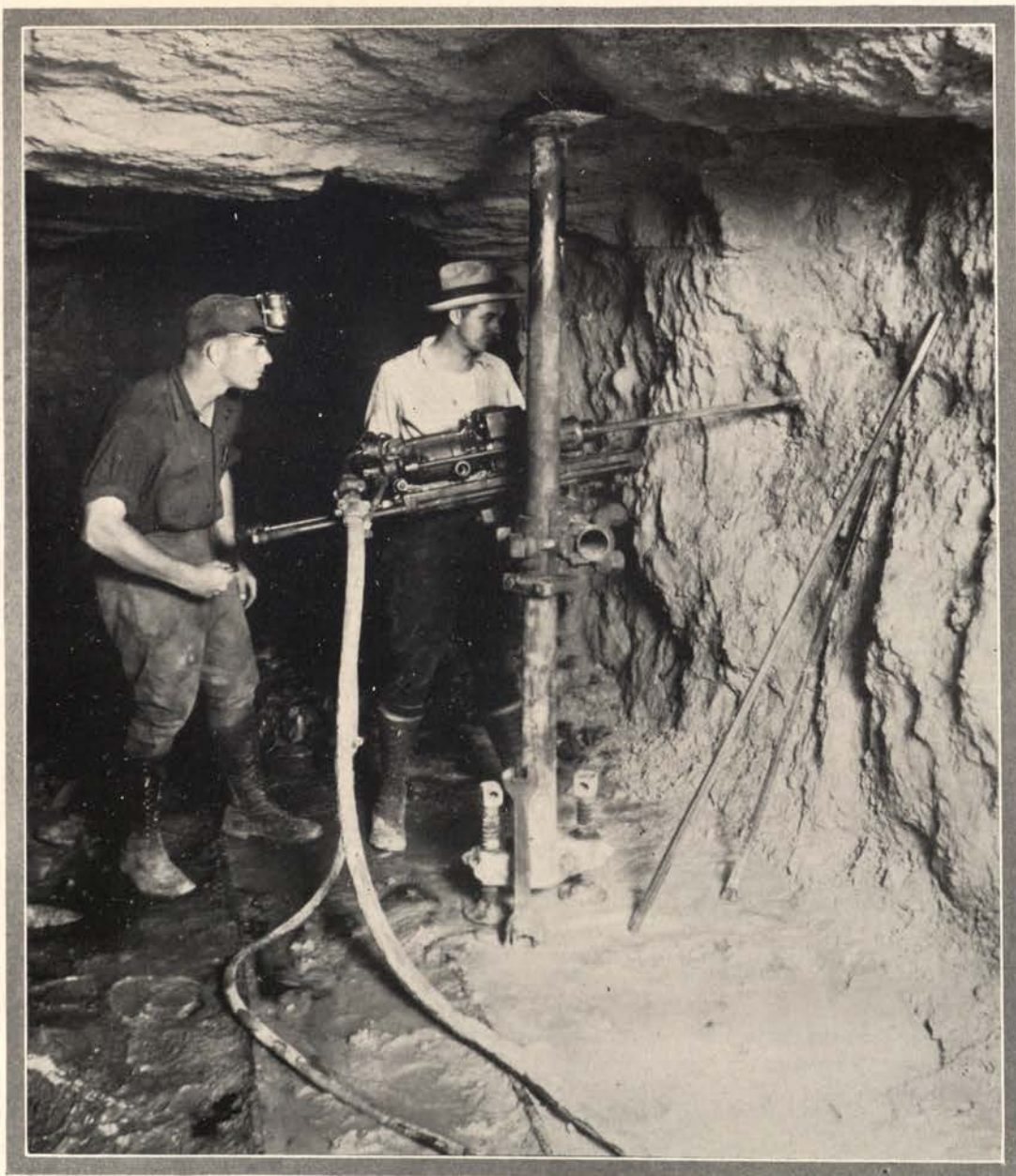
"Who in $\$! \| x \uparrow ?$ - wants to fish?" He chuckled reminiscently.

Suddenly seeming to realize who my disguised self was, the professor bounced out of his chair and shook a finger at me.

"I'll make you sing Bass before you get out of here—Einstein was all wrong—why, they had four blackboards completely covered with figures, and I did it all with three simple trigonometric formulae—even rabbits can multiply.

And in his flurry of excitement Mr. Dean picked up an old-fashioned telescope which I happened to be carrying with me, and with a hoarse "I'll show you" started pulling out the sections and twirling it in a most alarming manner. When he stopped these peculiar motions, he glanced at it over the tops of his glasses.

"What in the ——" I never heard the rest of it, because he threw me out of the window and went up in a beautiful tantrum. These new tantrums, I'm told, are a very good plane. No trouble at all to fly them. — Anyhow, Professor Dean is a most remarkable man.



STUDENTS OPERATING A DRIFTER TYPE HAMMER DRILL IN THE SCHOOL MINE

Mining and Civilization

In ancient times, mining was looked upon with disfavor and even fear, and possessed little of the romance that has come to it in modern times. The reason for this is quite evident; at that time the natural treasures, especially gold and silver, were the property of the Rulers of the land and were exploited with the labor of captives and criminals. It was the custom to enslave prisoners of war and the worst that could befall a captive was to be sentenced to work in the mines. It was considered ever worse than being sent to the gallows.

Little is known of mining during the Middle Ages but by the end of the 16th Century it had become a relatively important industry. Agricola, a German scientist, published in 1550 his "De Re Metallica," which was translated from the Latin several years ago by Mr. and Mrs. Herbert Hoover. This book represented the first attempt at publishing a technical book on the art of mining, and it remained a standard text on mining and metallurgy for nearly two centuries.

Mining was evidently more or less in disrepute even in Agricola's time, for he devoted several pages to a defence of the industry. It is interesting to note how little human emotions and thoughts have changed during the past four hundred years. In Agricola's time there were those who condemned the use of metals. Gold was condemned because many crimes were committed on account of it; iron, because employed in making instruments of war; lead, because used, when molten, in certain forms of punishment. Some claimed that because metals were buried in the earth, God did not intend that man should use them, and spoke of "wicked men, products of the Iron Age." Today we have those who bemoan our mechanical civilization and the evils of this "Iron Age."

The unscrupulous mining promoter apparently thrived even in Agricola's time, and he laid down some simple rules, which if followed today, would save many dollars for credulous investors. He also discussed and exposed the use of the "forked stick" or "divining rod" for locating water, which is still used by ignorant and unscrupulous persons.

During the lifetime of Agricola there took place the greatest geographical expansion in the world's history. Most of this expansion was brought about by the lure of gold or the romance of mining. The stories of Cortez, who entered the City of Mexico in 1520, and of Pizarro, who landed in Peru in 1528, are stories of a search for gold. In fact the early history of the Western Hemisphere is largely a story of a search for gold and an oppression of the peoples found inhabiting it. Fortunately, North America, in part, was peopled by men of a higher type who were in search of freedom rather than gold. It was also fortunate, perhaps, that no gold was found by the early Colonists and they were compelled to resort to agriculture and the soil for a living.

Mining, as an essential element, plays little part in early American history, and it was not until the discovery of gold in California in 1849 that this peace disturbing source of wealth greatly affected the population. This discovery undoubtedly advanced the cause of California at least forty years; civilization sprang up as if by magic and soon spread eastward, meeting the westward moving line and opening up a hitherto vast, unknown wilderness. The wealth from the California gold mine and from the great Comstock Lode came at a most opportune time for the nation and contributed in no small way to the re-habilitation of the country after the ravage of a great Civil War.

The American mining industry really dates from 1849. Nitro-glycerine was discovered in 1847; the first rock drill was patented in 1850, and thus we have the development of high explosives and machine drills, so essential to modern mining, co-incident with the development of the industry itself. During the early days of mining we see

the dawn of a new industrial era. The use of machinery in mines had its beginning in this period; the first steam pump was used in a Cornish tin mine and the first use of the electric locomotive was for mine transportation.

As modern science and invention made new discoveries and perfected new machines the miner has been called upon to furnish more and more raw materials. The development of the automobile industry created a demand for metals and fuel in tremendous quantities. The electrical industry has called for copper and still more copper. Had it not been for the development of the Utah Copper enterprise by Mr. D. C. Jackling, which demonstrated the possibility of working low grade deposits, it is possible that the progress of the nation as a whole might have been materially retarded, for one-third of the world's copper has since come from these low grade ores.

In the last decade a new phase of civilization has developed in which the miner plays a still more important part. The replacing of hand labor by the machine in every form of industry is calling not only for more metals from which to manufacture the machines, but for coal and petroleum in quantities undreamed of by former generations. Thus we see the miner contributing continually to this advancement, and without him and the product of his works the new industrial era would soon vanish.

In the dry pages of statistics of our mineral product one can read between the lines the history of the industrial development of the nation. Until the year 1880, the metals constituted the most important part of our mineral products. Since that time the non-metallic products have exceeded the metallic in value on account of the increased demand for the mineral fuels, coal and petroleum, until today they represent three times the value of the metals. From an industry of little importance in 1880 there has developed a vast industry second only to agriculture, with a production amounting to nearly six and a half billions annually, and affording employment to two millions of workers.

The mining industry, however, has contributed not only metals and fuels, but it has trained in its ranks many men of distinction, one of whom is now the head of this great nation, a mining engineer who had attained distinction as a technician as well as a great administrator in mining, long before he entered the greater sphere of public service. The rise of Mr. Hoover to public position is not an accident. The age is increasingly industrial, and society and government must become more and more interested in industrial and engineering matters. Inevitably, the public will need and demand more and more leadership of its engineers. The engineer of today, therefore, is preparing not only for a private life but he is preparing in many cases for a public one. Mr. Hoover is only the first of a long line of engineers who will be called to public position.

CARROLL R. FORBES,

Professor of Mining.



M.S.M. EXPERIMENTAL MINE VIEWS

1. MILL AND HOISTING PLANT
2. ENTRY TO M.S.M. MINE
3. A VIEW OF THE MINE
4. THE POWER PLANT

The Man Behind The Pick

There has been all kinds of gush about the man who is "behind"—
 And the man behind the cannon has been toasted, wined and dined.
 There's the man behind the musket, and the man behind the fence;
 And the man behind his whiskers, and the man behind his rents;
 And the man behind the plough beam, and the man behind the hoe;
 And the man behind the ballot, and the man behind the dough;
 And the man behind the jimmy, and the man behind the bars;
 And the Johnny that goes snooping on the stage behind the "stars";
 And the man behind the kisser, and the man behind the fist;
 And the girl behind the man behind the gun is on the list.
 But they missed one honest fellow, and I'm raising of a kick,
 That they didn't make a mention of the man behind the pick.
 Up the rugged mountain side a thousand feet he takes his way,
 Or as far into the darkness from the cheering light of day;
 He is shut out from the sunlight in the glimmer of the lamps,
 He is cut off from the sweet air in the sickly fumes and damps;
 He must toil in cramped position; he must take his life in hand,
 For he works in deadly peril that but few can understand.
 But he does it all in silence, and he seldom makes a kick,
 Which is why I sing the praises of the man behind the pick.
 He unlocks the bolted portals of the mountains to the stores;
 Hid in nature's vast exchequer in her treasure house of ores,
 He applies a key dynamic, and the gates are backward rolled,
 And the ancient rocks are riven to the secret heart of gold.
 Things of comfort and of beauty and of usefulness are mined
 By this brave and quiet worker—he's a friend of humankind;
 Who though trampled down and underpaid, toils on without a kick;
 So I lift my hat in honor to the man behind the pick.



Paradise Lost

When Prospector Bill tired of earthly existence,
Of tramping the hills and the deserts with Fate,
He gave up the struggle with little resistance
And hit the lone trail to the great pearly gate.

St. Peter, one eye at the Peep-hole, espied him;
"And what have you done to earn rest in the fold?"
Bill answered, with visions of Heaven denied him,
"I peopled earth's deserts by locating gold."

"A Prospector! Mercy!" his voice was unsteady—
"Bold pilgrim," he questioned, "Hast never been told
That Heaven is full of your brethren aiready—
They ruin our streets digging holes to find gold."

Old Bill scratched his head, then a gleam lit his features,
"Just let me come in," he entreated, "I know
A way to rid Heaven of all of those creatures,
And failing in this, I promise to (get out and) go."

St. Peter looked puzzled, half doubting, half hoping,
"If only you could, Bill," he said with a sigh;
"You know not the trouble with which we are coping,
But anyhow, enter—you might as well try."

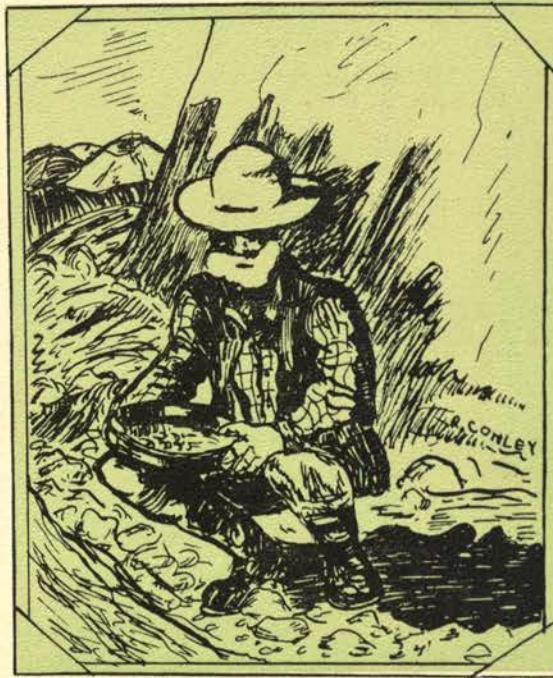
The Portal swung open, Bill lost not a minute;
Approaching the culprits all digging pell mell,
He spread the bold fiction for all there was in it,
That gold had been struck in the vortex of Hell.

And then something happened, as Bill had expected,
Believing the yarn of this Angel pro tem,
The mad throng stampeded, and Heaven rejected,
Began a wild race to the Devil's own realm.

"Well done," said the Saint, in his happiest humor,
"But Bill," he continued, in words tense and low,
"Could they, Heaven's shrewdest, be fooled by a rumor,
Perhaps there is gold in the realm down below."

Bill took one long breath as an angel immortal,
Yet saw the wild tumult! Yet heard the din swell!
"Goodbye!" he yelled back, as he dashed through the portal,
And brought up the rear on the highway to Hell!

—Albert Owen Nichols.



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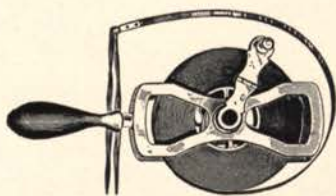
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